

ED. No. 059-00019 Rev. G10-D120
Company Southeastern Land, LLC
Facility Twin Branch Surface Mine
Initiated by PAR

P & A Engineers & Consultants, Inc.

312 Justice Avenue
Logan, WV 25601

Phone (304) 752-8320
Fax (304) 752-7488

March 28, 2017



Mr. William F. Durham, Director
Division of Air Quality
601 57th Street SE
Charleston, WV 25304

RE: Southeastern Land, LLC
Coal Crushing/Screening
Facility ID: Pending

Dear Mr. Durham:

On behalf of Southeastern Land, LLC, we submit the enclosed General Permit Registration for the above-referenced facility. Included is a check in the amount of \$1,500.00, which represents the submittal fee.

The application addresses the construction and operation of a coal crushing and screening plant facility to be located on the Twin Branch Surface Mine in Mingo County.

If additional information or clarification is needed, please contact me at the Logan address listed above or call 304-752-8320.

Sincerely,

A handwritten signature in blue ink, appearing to read "Donna J. Toler".

Donna J. Toler
Air Quality Project Manager

donnatoler@suddenlink.net

Entire Document
NON-CONFIDENTIAL

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WVDAQ Registration Application

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WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
601 57TH Street SE
Charleston, WV 25304
Phone: (304) 926-0475 • www.wvdep.org

APPLICATION FOR GENERAL PERMIT REGISTRATION

CONSTRUCT, *MODIFY*, RELOCATE OR
ADMINISTRATIVELY UPDATE
A STATIONARY SOURCE OF AIR POLLUTANTS

PLEASE CHECK ALL THAT APPLY (IF KNOWN):

- ☒ CONSTRUCTION ☐ MODIFICATION ☐ RELOCATION
☐ ADMINISTRATIVE UPDATE ☐ AFTER-THE-FACT

FOR AGENCY USE ONLY: PLANT I.D. #

PERMIT # _____ PERMIT WRITER: _____

- ☒ G10-C – Coal Preparation and Handling
☐ G20-B – Hot Mix Asphalt
☐ G30-B – Natural Gas Compressor Stations
☐ G40-B – Nonmetallic Minerals Processing
☐ G50-B – Concrete Batch

9. DAQ PLANT I.D. NO. (FOR AN EXISTING FACILITY ONLY):

PENDING

SECTION I. GENERAL INFORMATION

1. NAME OF APPLICANT (AS REGISTERED WITH THE WV SECRETARY OF STATE'S OFFICE):

SOUTHEASTERN LAND, LLC

2. FEDERAL EMPLOYER ID NO. (FEIN):

26-1118578

3. APPLICANT'S MAILING ADDRESS:

PO BOX 9, NAUGATUCK, WV 25685

5. IF APPLICANT IS A SUBSIDIARY CORPORATION, PLEASE PROVIDE THE NAME OF PARENT CORPORATION:

6. WV BUSINESS REGISTRATION. IS THE APPLICANT A RESIDENT OF THE STATE OF WEST VIRGINIA? ☒ YES ☐ NO

⇒ IF YES, PROVIDE A COPY OF THE CERTIFICATE OF INCORPORATION / ORGANIZATION / LIMITED PARTNERSHIP (ONE PAGE) INCLUDING ANY NAME CHANGE AMENDMENTS OR OTHER *BUSINESS CERTIFICATE* AS ATTACHMENT A.

⇒ IF NO, PROVIDE A COPY OF THE CERTIFICATE OF AUTHORITY / AUTHORITY OF L.L.C. / REGISTRATION (ONE PAGE) INCLUDING ANY NAME CHANGE AMENDMENTS OR OTHER *BUSINESS CERTIFICATE* AS ATTACHMENT A.

SECTION II. FACILITY INFORMATION

7. TYPE OF PLANT OR FACILITY (STATIONARY SOURCE) TO BE CONSTRUCTED, MODIFIED, RELOCATED OR ADMINISTRATIVELY UPDATED (E.G., COAL PREPARATION PLANT, PRIMARY CRUSHER, ETC.): Construction and operation of coal crushing/screening plant		8. STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE FOR THE FACILITY: <p align="center">1222</p>
9A. DAQ PLANT I.D. NO. (FOR AN EXISTING FACILITY): <p>Pending</p>	10A. LIST ALL CURRENT 45CSR13 AND 45CSR30 (TITLE V) PERMIT NUMBERS ASSOCIATED WITH THIS PROCESS (FOR EXISTING FACILITY ONLY):	

PRIMARY OPERATING SITE INFORMATION

11A. NAME OF PRIMARY OPERATING SITE: <p align="center">Twin Branch Surface Mine</p>	12A. MAILING ADDRESS OF PRIMARY OPERATING SITE: <p align="center">Same</p>	
13A. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE <i>PROPOSED SITE</i> ? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO ⇨ IF YES, PLEASE EXPLAIN: OWNER AND OPERATOR ⇨ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.		
14A. ⇨ FOR MODIFICATIONS or ADMINISTRATIVE UPDATES , AT AN EXISTING FACILITY, PLEASE PROVIDE DIRECTIONS TO THE <i>PRESENT LOCATION</i> OF THE FACILITY FROM THE NEAREST STATE ROAD; ⇨ FOR CONSTRUCTION OR RELOCATION PERMITS , PLEASE PROVIDE DIRECTIONS TO <i>THE PROPOSED NEW SITE LOCATION</i> FROM THE NEAREST STATE ROAD. <p align="center">From Charleston, take 119S past Fountain Place Mall in Logan – proceed on US119S approximately 12 miles – mine entrance is located on Twin Branch Road before the Route 65 exit.</p> <p align="center">INCLUDE A MAP AS ATTACHMENT F.</p>		
15A. NEAREST CITY OR TOWN: <p align="center">Lenore</p>	16A. COUNTY: <p align="center">Mingo</p>	
17A. UTM NORTHING (KM): <p align="center">4185.69584</p>	18A. UTM EASTING (KM): <p align="center">397.93510</p>	19A. UTM ZONE: <p align="center">17</p>

LAT/LONG FOR PLANT: 37-48-46.6472 AND 82-09-34.3691

1ST ALTERNATE OPERATING SITE INFORMATION

11B. NAME OF PRIMARY OPERATING SITE: N/A		12B. MAILING ADDRESS OF PRIMARY OPERATING SITE:	
13B. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE <i>PROPOSED SITE</i> ? <input type="checkbox"/> YES <input type="checkbox"/> NO ⇨ IF YES, PLEASE EXPLAIN: _____ _____ _____ ⇨ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.			
14B. ⇨ FOR MODIFICATIONS or ADMINISTRATIVE UPDATES , AT AN EXISTING FACILITY, PLEASE PROVIDE DIRECTIONS TO THE <i>PRESENT LOCATION</i> OF THE FACILITY FROM THE NEAREST STATE ROAD; ⇨ FOR CONSTRUCTION OR RELOCATION PERMITS , PLEASE PROVIDE DIRECTIONS TO <i>THE PROPOSED NEW SITE LOCATION</i> FROM THE NEAREST STATE ROAD. INCLUDE A MAP AS ATTACHMENT F.			
15B. NEAREST CITY OR TOWN:		16B. COUNTY:	
17B. UTM NORTHING (KM):		18B. UTM EASTING (KM):	19B. UTM ZONE:

2ND ALTERNATE OPERATING SITE INFORMATION

11C. NAME OF PRIMARY OPERATING SITE: <p align="center">N/A</p>	12C. MAILING ADDRESS OF PRIMARY OPERATING SITE: 	
13C. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE <i>PROPOSED SITE</i> ? <input type="checkbox"/> YES <input type="checkbox"/> NO ⇨ IF YES, PLEASE EXPLAIN: _____ ⇨ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.		
14C. ⇨ FOR MODIFICATIONS or ADMINISTRATIVE UPDATES , AT AN EXISTING FACILITY, PLEASE PROVIDE DIRECTIONS TO THE <i>PRESENT LOCATION</i> OF THE FACILITY FROM THE NEAREST STATE ROAD; ⇨ FOR CONSTRUCTION OR RELOCATION PERMITS , PLEASE PROVIDE DIRECTIONS TO <i>THE PROPOSED NEW SITE</i> LOCATION FROM THE NEAREST STATE ROAD. INCLUDE A MAP AS ATTACHMENT F.		
15C. NEAREST CITY OR TOWN:	16C. COUNTY:	
17C. UTM NORTHING (KM):	18C. UTM EASTING (KM):	19C. UTM ZONE:
20. PROVIDE THE DATE OF ANTICIPATED INSTALLATION OR CHANGE: <u>Upon permit approval</u> ⇨ IF THIS IS AN AFTER-THE-FACT PERMIT APPLICATION, PROVIDE THE DATE UPON WHICH THE PROPOSED CHANGE DID HAPPEN: ____/____/____		21. DATE OF ANTICIPATED START- UP IF REGISTRATION IS GRANTED: <u>Upon permit approval</u>
22. PROVIDE MAXIMUM PROJECTED OPERATING SCHEDULE OF ACTIVITY/ ACTIVITIES OUTLINED IN THIS APPLICATION: HOURS PER DAY <u>8</u> DAYS PER WEEK <u>5</u> WEEKS PER YEAR <u>50</u> PERCENTAGE OF OPERATION <u>100%</u>		

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**SOUTHEASTERN LAND, LLC
1441 RIVER FRONT RD
LOVELY, KY 41231-8983**

BUSINESS REGISTRATION ACCOUNT NUMBER: 2333-9404

This certificate is issued on: **07/5/2016**

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code*

*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

DETAILED PROCESS DESCRIPTION

The Twin Branch Surface Mine is located in a remote area of Mingo County, WV. Coal will be crushed at the pit by the Detroit Diesel 3-53, stockpiled, and screened thru the Chieftain 1700 DD Screen.

The coal will be pit-cleaned and fed by front-end loader to bin BS-01(PW) @ TP-01(UD-PW) which is a 3 yard bin and used for transfer purposes only; BS-01 will transfer to fully enclosed crusher w/water CR-01(FW) @ TP-02(TC-PW); to belt conveyor BC-01(NC) @ TP-03(TC-FW); to stockpile OS-01(SW-WS) @ TP-04(TC-MDH). Coal will then transfer from OS-01 @ TP-05(UD-PW) or directly from the coal pit @ TP-06(UD-PW) to 10 ton bin BS-02(PW). Bin BS-02 will transfer to the screen feed conveyor BC-02(NC) @ TP-07(TC-PE); to screen SS-01(PW) @ TP-08(TC-FE). Screen material will then be sent to any one of four belt conveyors BC-03(NC), BC-04(NC), BC-05(NC), or BC-06(NC) for transfer to the stockpiles OS-02(SW-WS), OS-03(SW-WS), OS-04(SW-WS) and OS-05(SW-WS) @ TP-09(TC-PE) thru TP-20(UD-PW). Stockpiles will then be loaded to truck for delivery. Oversize Stockpile OS-05 will be loaded backed to bin BS-01 by front-end loader for reprocessing.

The crusher feed bin will be used for coal transfer only and not storage, therefore, water sprays are not required but necessary as determined by this writer.

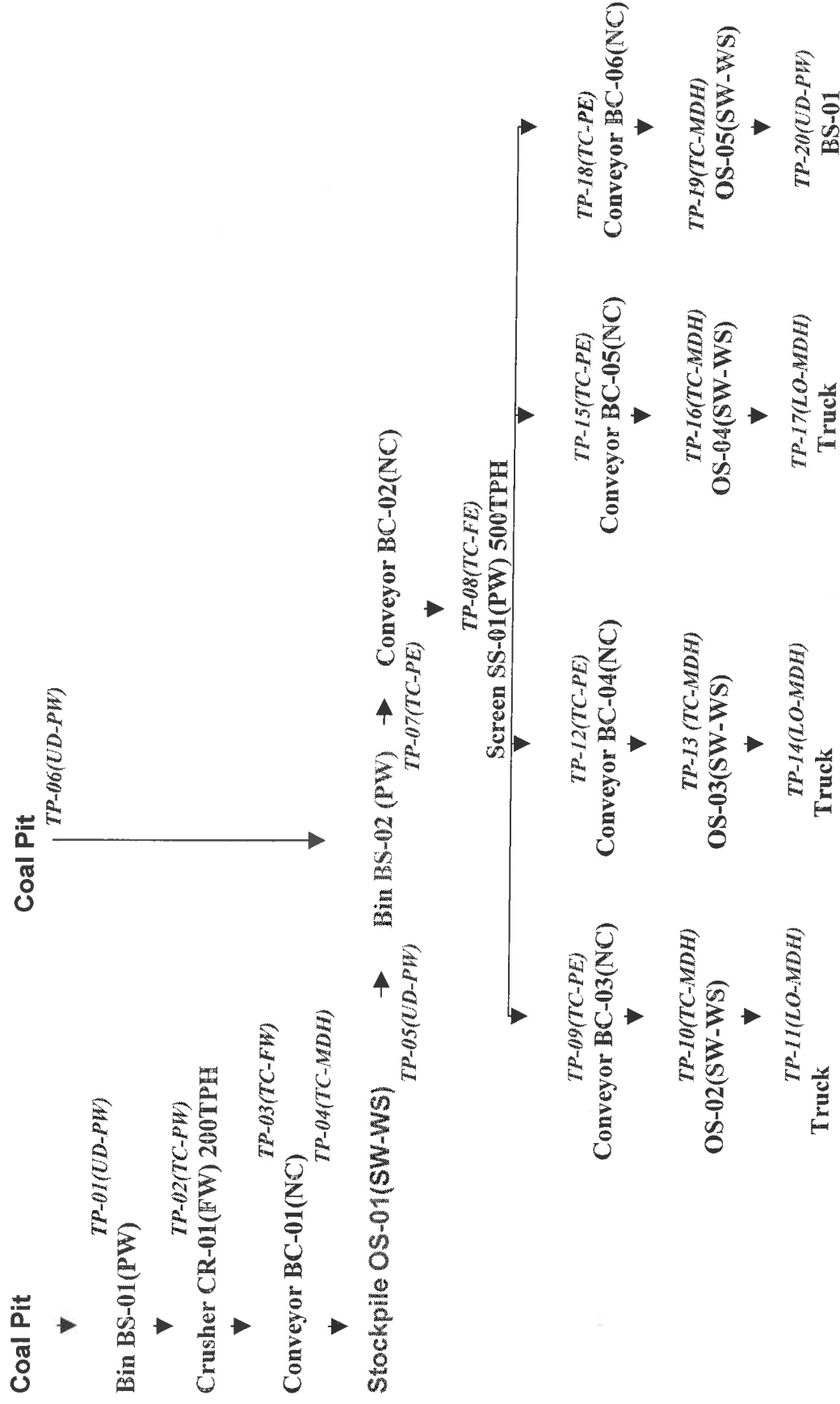
ATTACHMENT C

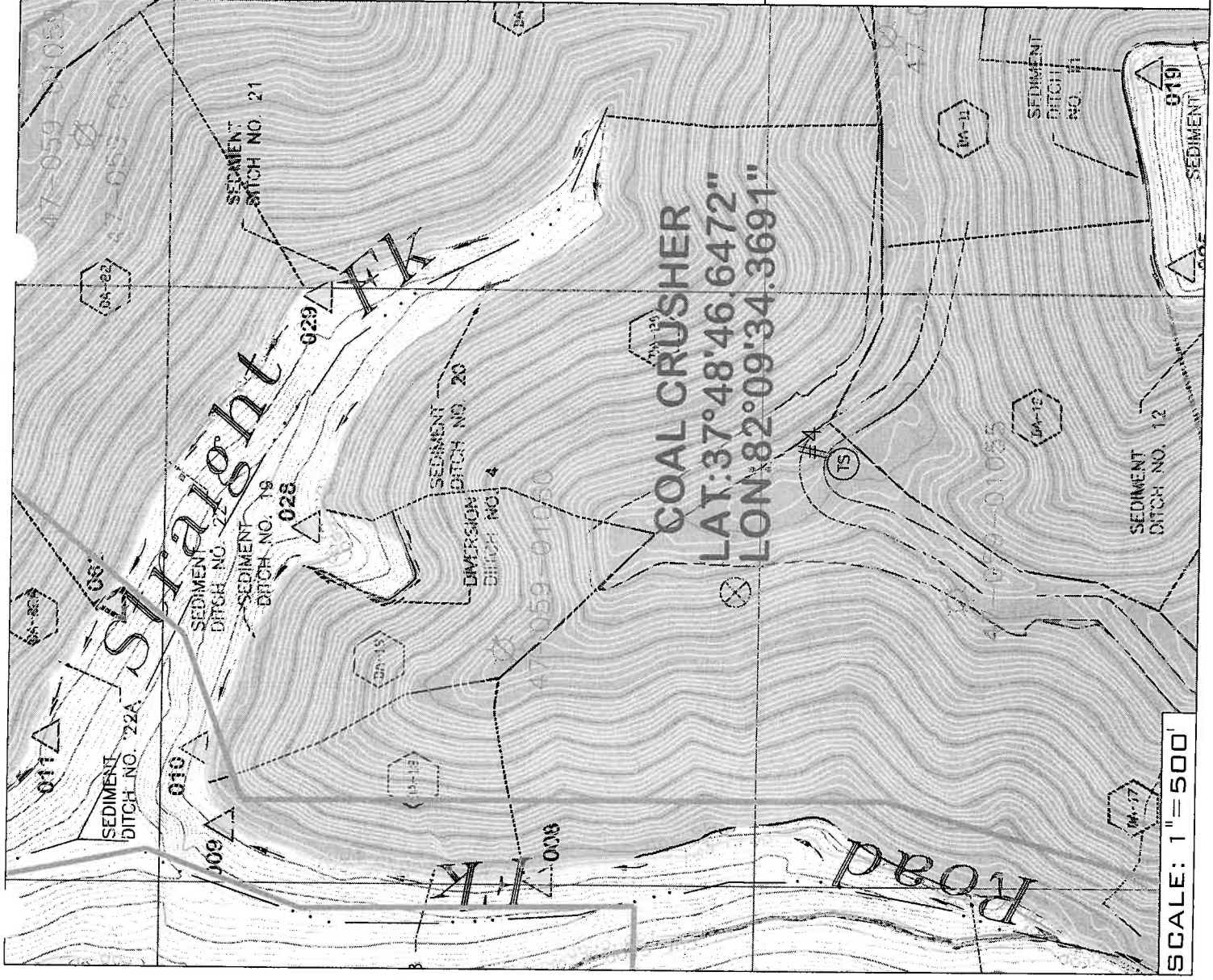
DESCRIPTION OF FUGITIVE EMISSIONS

Potential sources of fugitive particulate emissions for this facility include emissions, which are not captured by pollution control equipment and emissions from open stockpiles and vehicular traffic on unpaved haulroads and work areas. The haulroads and work areas will be controlled by water truck in accordance with section E.6.c.i. of the General Permit. The stockpile areas will be controlled by water truck with pressurized pumps sufficient to control emissions. The water truck will be operated three times daily, and more as needed in dry periods.

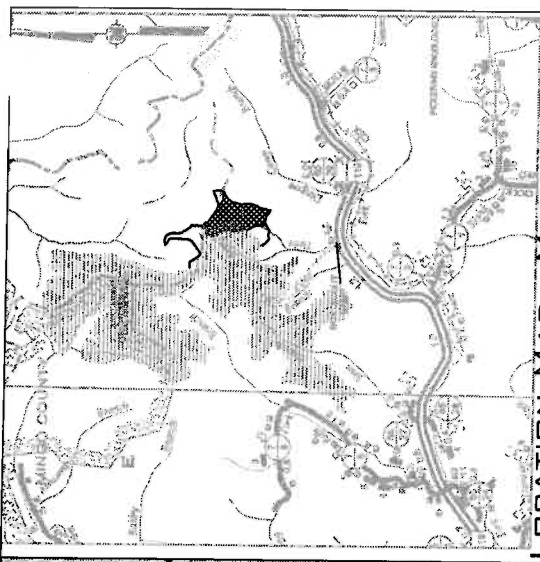
An additive to prevent freezing will be utilized in the winter months when freezing conditions are present. New course rock base material will be added to unpaved haulroads as needed.

SOUTHEASTERN LAND, LLC
MATERIAL FLOW DIAGRAM – TWIN BRANCH
COAL CRUSHING/SCREENING PLANT





COAL CRUSHER
LAT: 37°48'46.6472"
LON: 82°09'34.3691"

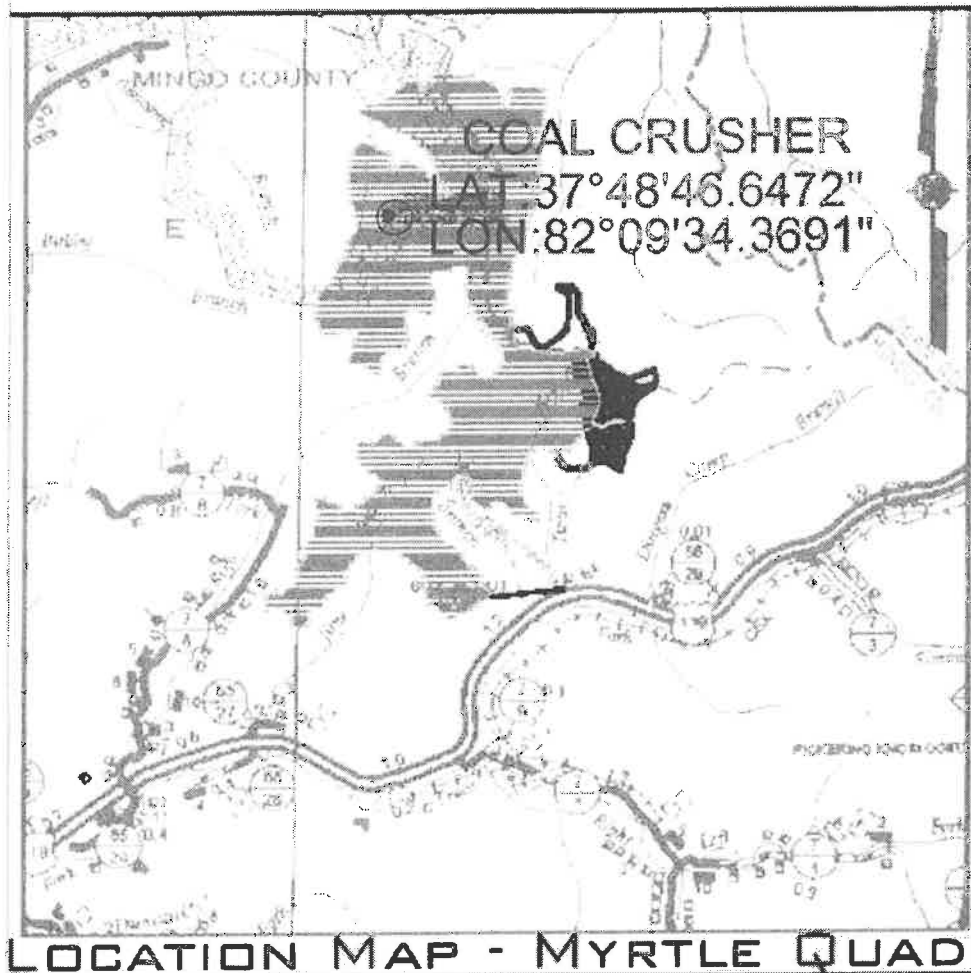


LOCATION MAP - MYRTLE QUAD

COAL CRUSHER 

SOUTHEASTERN LAND, LLC.
P.O. BOX 9
NAUGATUCK, WV 25685

DIVISION OF AIR QUALITY
SITE PLAN
FACILITY ID: PENDING



NPDES PERMIT WV1020722

WV DEPT. OF HIGHWAYS
HARDEE AND HARVEY DISTRICT
OF MINGO COUNTY, WV
NEAREST P.O. HOLDEN
MYRTLE (NO. 500) QUADRANGLE

RECEIVING STREAMS:
TWIN BRANCH, LITTLE TWIN BRANCH, JIMS BRANCH, RIFFE
BRANCH, ALL OF TRACE FORK OF PIGEON CREEK, &
UNNAMED TRIBUTARIES OF LAUREL FORK, LAUREL FORK,
ROAD FORK, STRAIGHT FORK, STURGELL FORK OF RIGHT
FORK OF LAUREL FORK ALL OF PIGEON CREEK OF THE
TUG RIVER.

Lon/Lat

Longitude: d m
 s

Latitude: d m
 s

DD: -82.159547 37.812958

Datum: ☐ NAD27 ☒ NAD83

UTM

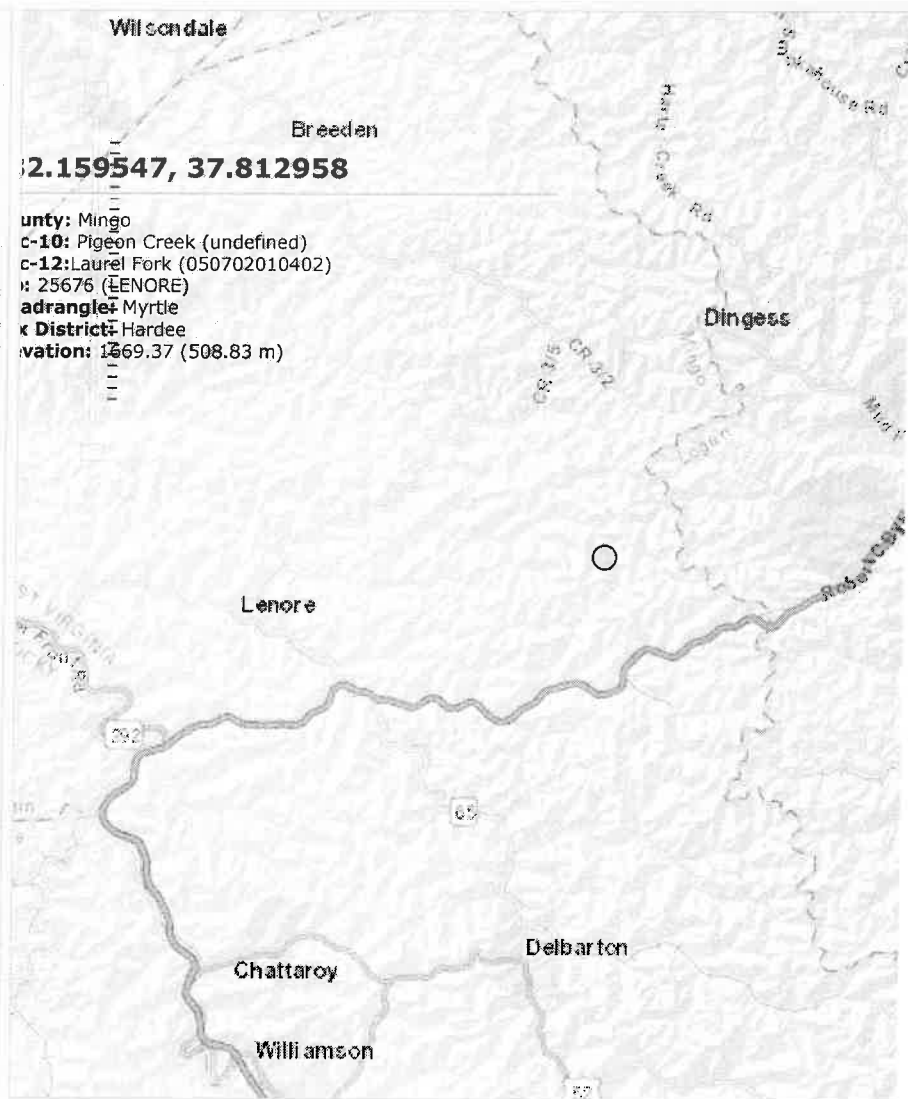
Coordinates: E N

Datum: ☐ NAD27 ☒ NAD83 Zone:

WV State Plane (feet)

Coordinates: E N

Datum: ☐ NAD27 ☒ NAD83 Zone:

☒ street map ☐ image ☐ topo

CRUSHING AFFECTED SOURCE SHEET

Source Identification Number ¹		CR-01					
Type of Crusher or Screen ²		TR					
Date of Manufacture ³		1977					
Maximum Throughput ⁴	tons/hour	200					
	tons/year	720,000					
Material sized from/to ⁵		6x0					
Average Moisture Content (%) ⁶		5					
Control Device ID Number ⁷		FW					
Baghouse Stack Parameters ⁸	height (ft)	N/A					
	diameter (ft)						
	volume (ACFM)						
	exit temp (°F)						
	UTM Coordinates						
Maximum Operating Schedule ⁹	hours/day	12					
	days/year	300					
	hours/year	3600					
Percentage of Operation ¹⁰	January-March	25					
	April-June	25					
	July-September	25					
	Oct-December	25					

1. Enter the appropriate Source Identification Number for each crusher and screen. For example, in the case of an operation which incorporates multiple crushers, the crushers should be designated CR-1, CR-2, CR-3 etc. beginning with the breaker or primary crusher. Multiple screens should be designated S-1, S-2, S-3 etc.
2. Describe types of crushers and screens using the following codes:

HM	Hammermill	SS	Stationary Screen
DR	Double Roll Crusher	SD	Single Deck Screen
BM	Ball Mill	DD	Double-Deck Screen
RB	Rotary Breaker	TD	Triple Deck Screen
JC	Jaw Crusher	OT	Other
GC	Gyratory Crusher		
OT	Other - Quadroll		
3. Enter the date that each crusher and screen was manufactured.
4. Enter the maximum throughput for each crusher and screen in tons per hour and tons per year.
5. Describe the nominal material size reduction (e.g. +2" / -").
6. Enter the average percent moisture content of the material processed.
7. Enter the appropriate Control Device Identification Number for each crusher and screen. Refer to Table A - *Control Device Listing* and *Control Device Identification Number Instructions* in the *Reference Document* for Control Device ID prefixes and numbering.
8. Enter the appropriate stack parameters if a baghouse control device is used.
9. Enter the maximum operating schedule for each crusher and screen in hours per day, days per year and hours per year.
10. Enter the estimated percentage of operation throughout the year for each crusher and screen.

CRUSHING AFFECTED SOURCE SHEET

Source Identification Number ¹		SS-01					
Type of Crusher or Screen ²		DD					
Date of Manufacture ³		2015					
Maximum Throughput ⁴	tons/hour	500					
	tons/year	1,800,000					
Material sized from/to: ⁵		4x0					
Average Moisture Content (%) ⁶		5					
Control Device ID Number ⁷		PW					
Baghouse Stack Parameters ⁸	height (ft)	N/A					
	diameter (ft)						
	volume (ACFM)						
	exit temp (°F)						
	UTM Coordinates						
Maximum Operating Schedule ⁹	hours/day	12					
	days/year	300					
	hours/year	3600					
Percentage of Operation ¹⁰	January-March	25					
	April-June	25					
	July-September	25					
	Oct-December	25					

1. Enter the appropriate Source Identification Number for each crusher and screen. For example, in the case of an operation which incorporates multiple crushers, the crushers should be designated CR-1, CR-2, CR-3 etc. beginning with the breaker or primary crusher. Multiple screens should be designated S-1, S-2, S-3 etc.
2. Describe types of crushers and screens using the following codes:

HM Hammermill DR Double Roll Crusher BM Ball Mill RB Rotary Breaker JC Jaw Crusher GC Gyratory Crusher OT Other - Quadroll	SS Stationary Screen SD Single Deck Screen DD Double-Deck Screen TD Triple Deck Screen OT Other
--	---
3. Enter the date that each crusher and screen was manufactured.
4. Enter the maximum throughput for each crusher and screen in tons per hour and tons per year.
5. Describe the nominal material size reduction (e.g. +2" / -").
6. Enter the average percent moisture content of the material processed.
7. Enter the appropriate Control Device Identification Number for each crusher and screen. Refer to Table A - *Control Device Listing* and *Control Device Identification Number Instructions* in the *Reference Document* for Control Device ID prefixes and numbering.
8. Enter the appropriate stack parameters if a baghouse control device is used.
9. Enter the maximum operating schedule for each crusher and screen in hours per day, days per year and hours per year.
10. Enter the estimated percentage of operation throughout the year for each crusher and screen.

CONVEYING AFFECTED SOURCE SHEET

[illegible]

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number ¹	BS-01	BS-02				
Type of Material Stored ²	Coal	Coal				
Average Moisture Content (%) ³	5	5				
Maximum Yearly Storage Throughput (tons) ⁴	720,000	1,800,000				
Maximum Storage Capacity (tons) ⁵	3 yards (4ton)	10 tons				
Maximum Base Area (ft ²) ⁶						
Maximum Pile Height (ft) ⁷						
Method of Material Load-in ⁸	FE	FW				
Load-in Control Device Identification Number ⁹	UD-PE	UD-PW				
Storage Control Device Identification Number ⁹	Not used for storage – transfer only	SW-PW				
Method of Material Load-out ⁸	SS	SS				
Load-out Control Device Identification Number ⁹	TC-FE	TC-FE				

1. Enter the appropriate Source Identification Number for each storage activity using the following codes. For example, if the facility utilizes three storage bins, four open stockpiles and one storage building (full enclosure), the Source Identification Numbers should be BS-1, BS-2, and BS-3; OS-1, OS-2, OS-3, and OS-4; and SB-1, respectively.

BS Bin or Storage Silo (full enclosure)
 OS Open Stockpile
 SF Stockpiles with wind fences

E3 Enclosure (three sided enclosure)
 SB Storage Building (full enclosure)
 OT Other

2. Describe the type of material stored or stockpiled (e.g. clean coal, raw coal, refuse, etc).
 3. Enter the average percent moisture content of the stored material.
 4. Enter the maximum yearly storage throughput for each storage activity.
 5. Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.)
 6. For stockpiles, enter the maximum stockpile base area.
 7. For stockpiles, enter the maximum stockpile height.
 8. Enter the method of load-in or load-out to/from stockpiles or bins using the following codes:

CS Clamshell
 FC Fixed Height Chute from Bins
 FE Front Endloader
 MC Mobile Conveyor/Stacker
 UC Under-pile or Under-Bin Reclaim Conveyor
 RC Rake or Bucket Reclaim Conveyor

SS Stationary Conveyor/Stacker
 ST Stacking Tube
 TC Telescoping Chute from Bins
 TD Truck Dump
 PC Pneumatic Conveyor/Stacker
 OT Other

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number ¹	OS-01	OS-02	OS-03	OS-04	OS-05
Type of Material Stored ²	Coal	Coal	Coal	Coal	Coal
Average Moisture Content (%) ³	5	5	5	5	5
Maximum Yearly Storage Throughput (tons) ⁴	720,000	1,800,000	1,800,000	1,800,000	1,800,000
Maximum Storage Capacity (tons) ⁵	5,000	5,000	5,000	5,000	5,000
Maximum Base Area (ft ²) ⁶	8,869	8,869	8,869	8,869	8,869
Maximum Pile Height (ft) ⁷	20'	20'	20'	20'	20'
Method of Material Load-in ⁸	SS	SS	SS	SS	SS
Load-in Control Device Identification Number ⁹	TC-MDH	TC-MDH	TC-MDH	TC-MDH	TC-MDH
Storage Control Device Identification Number ⁹	SW-WS	SW-WS	SW-WS	SW-WS	SW-WS
Method of Material Load-out ⁸	EndLoader FE	EndLoader FE	EndLoader FE	EndLoader FE	EndLoader FE
Load-out Control Device Identification Number ⁹	LO-MDH	LO-MDH	LO-MDH	LO-MDH	LO-MDH

1. Enter the appropriate Source Identification Number for each storage activity using the following codes. For example, if the facility utilizes three storage bins, four open stockpiles and one storage building (full enclosure), the Source Identification Numbers should be BS-1, BS-2, and BS-3; OS-1, OS-2, OS-3, and OS-4; and SB-1, respectively.

BS Bin or Storage Silo (full enclosure)

OS Open Stockpile

SF Stockpiles with wind fences

E3 Enclosure (three sided enclosure)

SB Storage Building (full enclosure)

OT Other - Pressurized Water Truck

2. Describe the type of material stored or stockpiled (e.g. clean coal, raw coal, refuse, etc).
3. Enter the average percent moisture content of the stored material.
4. Enter the maximum yearly storage throughput for each storage activity.
5. Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.)
6. For stockpiles, enter the maximum stockpile base area.
7. For stockpiles, enter the maximum stockpile height.
8. Enter the method of load-in or load-out to/from stockpiles or bins using the following codes:

CS Clamshell

FC Fixed Height Chute from Bins

FE Front Endloader

MC Mobile Conveyor/Stacker

UC Under-pile or Under-Bin Reclaim Conveyor

RC Rake or Bucket Reclaim Conveyor

SS Stationary Conveyor/Stacker

ST Stacking Tube

TC Telescoping Chute from Bins

TD Truck Dump

PC Pneumatic Conveyor/Stacker

OT Other

BAGHOUSE AIR POLLUTION CONTROL DEVICE SHEET
Not applicable for this facility

Complete a Baghouse Air Pollution Control Device Sheet for each baghouse control device.

1. Baghouse Control Device Identification Number: _____
2. Manufacturer's name and model identification: _____
3. Number of compartments in baghouse: _____
4. Number of compartments online during normal operation and conditions: _____
5. Gas flow rate into baghouse: _____ ACFM @ _____ °F and _____ PSIA
6. Total cloth area: _____ ft²
7. Operating air to cloth ratio: _____ ft/min
8. Filter media type: _____
9. Stabilized static pressure drop across baghouse: _____ inches H₂O
10. Baghouse operation is:
☐ Continuous ☐ Automatic ☐ Intermittent
11. Method used to clean bags:
☐ Shaker ☐ Pulse jet ☐ Reverse jet ☐ Other
12. Emission rate of particulate matter entering and exiting baghouse at maximum design operating conditions:
Entering baghouse: _____ lb/hr and _____ grains/ACF
Exiting baghouse: _____ lb/hr and _____ grains/ACF
13. Guaranteed minimum baghouse collection efficiency: _____ %
14. Provide a written description of the capture system (e.g. hooding and ductwork arrangement), size of ductwork and hoods and air volume, capacity and operating horsepower of fan:

15. Describe the method of disposal for the collected material:

Include all information for each emission source and transfer point as listed in the permit application.

Name of applicant:	Southeastern Land
Name of plant:	Twin Branch Plant
	Based on 3600 hours

Primary Crusher ID Number	Description	Maximum Material Processing Capacity		Control Device	Control Efficiency
		TPH	TPY	ID Number	%
CR-01	Detroit Diesel 3-53	200	720,000	FW	90

[illegible][illegible]

Based on 3600 hrs

EMISSIONS SUMMARY

Name of applicant: Southeastern LandName of plant: Twin Branch Plant

Particulate Matter or PM (for 45CSR14 Major Source Determination)

Uncontrolled PM		Controlled PM	
lb/hr	TPY	lb/hr	TPY

FUGITIVE EMISSIONS				
<i>Stockpile Emissions</i>	0.28	1.24	0.07	0.31
<i>Unpaved Haulroad Emissions</i>	1,126.95	2,036.64	338.09	610.99
<i>Paved Haulroad Emissions</i>	0.00	0.00	0.00	0.00
Fugitive Emissions Total	1,127.24	2,037.89	338.16	611.30

POINT SOURCE EMISSIONS				
<i>Equipment Emissions</i>	54.00	97.20	10.40	18.72
<i>Transfer Point Emissions</i>	8.64	15.56	5.46	9.83
Point Source Emissions Total*	62.64	112.76	15.86	28.55

*Note: Point Source Total Controlled PM TPY emissions is used for 45CSR14 Major Source determination (see below)

Facility Emissions Total	1,189.88	2,150.64	354.02	639.85
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***Facility Potential to Emit (PTE) (Baseline Emissions) = 28.55**

(Based on Point Source Total controlled PM TPY emissions from above)

ENTER ON LINE 26 OF APPLICATION

Particulate Matter under 10 microns, or PM-10 (for 45CSR30 Major Source Determination)

Uncontrolled PM-10		Controlled PM-10	
lb/hr	TPY	lb/hr	TPY

FUGITIVE EMISSIONS				
<i>Stockpile Emissions</i>	0.13	0.58	0.03	0.15
<i>Unpaved Haulroad Emissions</i>	325.70	588.60	97.71	176.58
<i>Paved Haulroad Emissions</i>	0.00	0.00	0.00	0.00
Fugitive Emissions Total	325.83	589.19	97.74	176.73

POINT SOURCE EMISSIONS				
<i>Equipment Emissions</i>	25.38	45.68	4.89	8.80
<i>Transfer Point Emissions</i>	4.09	7.36	2.58	4.65
Point Source Emissions Total*	29.47	53.04	7.47	13.45

*Note: Point Source Total Controlled PM-10 TPY emissions is used for 45CSR30 Major Source determination

Facility Emissions Total	355.30	642.23	105.21	190.17
---------------------------------	---------------	---------------	---------------	---------------

Page 1

Primary Crusher ID Number	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
CR-01	4.000	7.200	0.400	0.720	1.880	3.384	0.188	0.338
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	4.000	7.200	0.400	0.720	1.880	3.384	0.188	0.338

[illegible]

Screen ID Number	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
SS-01	50.000	90.000	10.000	18.000	23.500	42.300	4.700	8.460
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	50.000	90.000	10.000	18.000	23.500	42.300	4.700	8.460

Crushing and Screening	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
TOTAL	54.000	97.200	10.400	18.720	25.380	45.684	4.888	8.798

EMISSION FACTORS

source: Air Pollution Engineering Manual and References

(lb/ton of material throughput)

PM	
Primary Crushing	0.02
Tertiary Crushing	0.06
Screening	0.1

PM-10	
Primary Crushing	0.0094
Tertiary Crushing	0.0282
Screening	0.047

2. Emissions From TRANSFER POINTS

[illegible]

2. Emissions From TRANSFER POINTS (continued)

[illegible]

Source:

AP42, Fifth Edition, Revised 11/2006

13.2.4 Aggregate Handling and Storage Piles

Emissions From Batch Drop

$$E = k \cdot (0.0032) \cdot [(U/5)^{1.3}] / [(M/2)^{1.4}] = \text{pounds/ton}$$

Where:

		PM	PM-10
k =	Particle Size Multiplier (dimensionless)	0.74	0.35
U =	Mean Wind Speed (mph)		
M =	Material Moisture Content (%)		

Assumptions:

k - Particle size multiplier

For PM (< or equal to 30um) k = 0.74

For PM-10 (< or equal to 10um) k = 0.35

Emission Factor

For PM E= $\$I\$88 \cdot (0.0032) \cdot ((((\text{Inputs!}\$I\$72)/5)^{1.3}) / (((\text{Inputs!}G78 + 0.000000001)/2)^{1.4}))$
=lb/ton

For PM-10 E= $\$J\$88 \cdot (0.0032) \cdot ((((\text{Inputs!}\$I\$72)/5)^{1.3}) / (((\text{Inputs!}G78 + 0.000000001)/2)^{1.4}))$
=lb/ton

For lb/hr [lb/ton]*[ton/hr] = [lb/hr]

For Tons/year [lb/ton]*[ton/yr]*[ton/2000lb] = [ton/yr]

3. Emissions From WIND EROSION OF STOCKPILES

Stockpile ID No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
OS-01	0.057	0.248	0.014	0.062	0.027	0.117	0.007	0.029
OS-02	0.057	0.248	0.014	0.062	0.027	0.117	0.007	0.029
OS-03	0.057	0.248	0.014	0.062	0.027	0.117	0.007	0.029
OS-04	0.057	0.248	0.014	0.062	0.027	0.117	0.007	0.029
OS-05	0.057	0.248	0.014	0.062	0.027	0.117	0.007	0.029
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.284	1.242	0.071	0.311	0.133	0.584	0.033	0.146

Source:

Air Pollution Engineering Manual

Storage Pile Wind Erosion (Active Storage)

$$E = 1.7 \cdot [s/1.5] \cdot [(365-p)/235] \cdot [f/15] = (\text{lb/day/acre})$$

Where:

s =	silt content of material
p =	number of days with >0.01 inch of precipitation per year
f =	percentage of time that the unobstructed wind speed exceeds 12 mph at the mean pile height

Emission Factors

For PM $E = (1.7) \cdot ((\text{Inputs!F147})/1.5) \cdot ((365 - \text{Inputs!I139})/235) \cdot ((\text{Inputs!I140})/15)$

For PM-10 $E = 0.47 \cdot (1.7) \cdot ((\text{Inputs!F147})/1.5) \cdot ((365 - \text{Inputs!I139})/235) \cdot ((\text{Inputs!I140})/15)$

For lb/hr $[\text{lb/day/acre}] \cdot [\text{day/24hr}] \cdot [\text{base area of pile (acres)}] = \text{lb/hr}$

For Ton/yr $[\text{lb/day/acre}] \cdot [365 \text{ day/yr}] \cdot [\text{Ton/2000lb}] \cdot [\text{base area of pile (acres)}] = \text{Ton/yr}$

4. Emissions From UNPAVED HAULROADS

Item No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
1	374.87	677.47	112.46	203.24	108.34	195.79	32.50	58.74
2	374.87	677.47	112.46	203.24	108.34	195.79	32.50	58.74
3	374.87	677.47	112.46	203.24	108.34	195.79	32.50	58.74
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	2.35	4.23	0.71	1.27	0.68	1.22	0.20	0.37
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS	1126.95	2036.64	338.09	610.99	325.70	588.60	97.71	176.58

Source:

AP42, Fifth Edition, Revised 11/2006

13.2.2 Unpaved Roads

Emission Estimate For Unpaved Haulroads at Industrial Sites (equation 1)

$$E = k \cdot ((s/12)^a) \cdot ((W/3)^b) = \text{lb/vmt}$$

Where:

		PM	PM-10
k =	particle size multiplier	4.90	1.50
a =	empirical constant	0.7	0.9
b =	empirical constant	0.45	0.45

Emission Factors

For PM $E = ((\$I\$35) * (((\text{Inputs!}\$I\$163)/12)^{(\$I\$36)}) * (((\text{Inputs!}H171)/3)^{(\$I\$37)}))$

For PM-10 $E = ((\$J\$35) * (((\text{Inputs!}\$I\$163)/12)^{(\$J\$36)}) * (((\text{Inputs!}H171)/3)^{(\$J\$37)}))$

For lb/hr $(\text{lb/vmt}) * (\text{miles per trip}) * (\text{Max trips per hour})$

For Ton/yr $(\text{lb/vmt}) * (\text{miles per trip}) * (\text{Max trips per year}) * (1/2000)$

5. Emissions From INDUSTRIAL PAVED HAULROADS

Item No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Source:

AP42, Fifth Edition, Revised 11/2006
13.2.1 PAVED ROADS

Emission Estimate For Paved Haulroads

$$E = [k * (sL/2)^{0.65} * (W/3)^{1.5} - C] * (1 - (P/4*N)) = \text{lb / Vehicle Mile Traveled (VMT)}$$

Where:

		PM	PM-10
k =	particle size multiplier	0.082	0.016
sL =	road surface silt loading, (g/ft ²)	1	
P =	number of days per year with precipitation >0.01 inch	157	
N =	number of days in averaging period	365	
C =	factor for exhaust, brake wear and tire wear	0.0047	0.0047

Emission Factors

For PM $E = (\$I\$34 * (((\$I\$35)/2)^{0.65} * (((\text{Inputs!G190})/3)^{1.5}) - (\$I\$38)) * (1 - ((\text{Inputs!G190})/3)))$

For PM-10 $E = (\$J\$34 * (((\$I\$35)/2)^{0.65} * (((\text{Inputs!G190})/3)^{1.5}) - (\$I\$38)) * (1 - ((\text{Inputs!G190})/3)))$

For lb/hr $(\text{lb/vmt}) * (\text{miles per trip}) * (\text{Max trips per hour})$

For Ton/yr $(\text{lb/vmt}) * (\text{miles per trip}) * (\text{Max trips per year}) * (1/2000)$

**AIR QUALITY PERMIT NOTICE
Notice of Application**

Notice is given that Southeastern Land, LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a General Permit Registration for a Coal Crushing and Screening Plant System to be located on Twin Branch Surface Mine, near Lenore in Mingo County, West Virginia. The facility coordinates are as follows: latitude 37.812958 and longitude -82.159547.

The applicant estimates the potential to discharge the following Regulated Air Pollutants from the diesel combustion engines will be: criteria pollutants for the engine is estimated to be: NOx 11.83 tons per year, CO 2.549 tons per year, VOC 0.943 tons per year, SOx 0.783 tons per year and PM10 0.84 tons per year. The potential to emit hazardous pollutants from the engine is estimated to be: Benzene 0.004848 tons per year, Toluene 0.002125 tons per year, Xylene 0.001481 tons per year, Acetaldehyde 0.003985 tons per year, Acrolein 0.00048 tons per year, Formaldehyde 0.006131 tons per year and Naphthalene 0.00044 tons per year.

The applicant estimates the potential to discharge the following Regulated Air Pollutants associated with the operation of the crushing/screening plant will be: facility particulate matter potential to emit baseline emissions of 29 tons per year, particulate matter less than 10 microns emissions total of 13 tons per year and particulate matter facility emissions total of 640 tons per year.

Startup of operation is planned to begin upon permit approval. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1250, during normal business hours.

Dated this the 3rd day of April 2017

By: Southeastern Land, LLC
Larry D. Adams
Authorized Agent
PO Box 9
Naugatuck, WV 25685

ATTACHMENT K

ELECTRONIC SUBMITTAL DISCS

SECTION IV. CERTIFICATION OF INFORMATION

This General Permit Registration Application shall be signed below by a Responsible Official. A Responsible Official is a President, Vice President, Secretary, Treasurer, General Partner, General Manager, a member of a Board of Directors, or Owner, depending on business structure. A business may certify an Authorized Representative who shall have authority to bind the Corporation, Partnership, Limited Liability Company, Association, Joint Venture or Sole Proprietorship. Required records of daily throughput, hours of operation and maintenance, general correspondence, Emission Inventory, Certified Emission Statement, compliance certifications and all required notifications must be signed by a Responsible Official or an Authorized Representative. If a business wishes to certify an Authorized Representative, the official agreement below shall be checked off and the appropriate names and signatures entered. Any administratively incomplete or improperly signed or unsigned Registration Application will be returned to the applicant.

FOR A CORPORATION (domestic or foreign)

G I certify that I am a President, Vice President, Secretary, Treasurer or in charge of a principal business function of the corporation

FOR A PARTNERSHIP

G I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

☒ I certify that I am a General Partner or General Manager

FOR AN ASSOCIATION

G I certify that I am the President or a member of the Board of Directors

FOR A JOINT VENTURE

G I certify that I am the President, General Partner or General Manager

FOR A SOLE PROPRIETORSHIP

G I certify that I am the Owner and Proprietor

is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Corporation, Partnership, Limited Liability Company, Association Joint Venture or Sole Proprietorship) and may obligate and legally bind the business. If the business changes its Authorized Representative, a Responsible Official shall notify the Chief of the Office of Air Quality immediately, and/or,

I hereby certify that all information contained in this General Permit Registration Application and any supporting documents appended hereto is, to the best of my knowledge, true, accurate and complete, and that all reasonable efforts have been made to provide the most comprehensive information possible

Signature XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(please use blue ink)

Responsible Official

Date

Name & Title: Larry D. Adams, Authorized Agent

(please print or type)

Signature

(please use blue ink)

Authorized Representative (if applicable)

Date

Applicant's Name: Southeastern Land, LLC

Phone: 304-235-7175(Jason Swann, contact) jason.swann@boothenergy.com

Email: larry.a@czarky.net



LIMITED POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that **Southeastern Land, LLC** ("Southeastern"), a Kentucky limited liability company, hereby constitutes and appoints **Larry D. Adams**, an employee of **Matrix Energy, LLC**, a Kentucky limited liability company and affiliate of **Southeastern**, its true and lawful attorney-in-fact and agent, with full power and authority to execute and deliver on behalf of **Southeastern**, all mining permit and related documentation required by the West Virginia Department of Environment Protection, or any other state or federal agency in order to participate in mining activities in State of West Virginia.

This Power of Attorney shall be effective as of its date of execution and shall remain in effect until revoked in writing. No person acting in reliance upon this power shall be charged with notice of any revocation hereof in the absence of actual knowledge of such revocation.

It is **Southeastern's** intention to grant to its attorney-in-fact full and complete authority to act for it and in its stead in the specific matter above described. In no event shall persons relying on this Power of Attorney be required to ascertain the authority of **Southeastern's** attorney-in-fact to act hereunder, and all persons dealing with said attorney-in-fact shall be entitled, in the absence of actual knowledge of revocation, to rely upon the authority of such person, and the acts of such person shall bind **Southeastern** and acquit persons dealing with my said attorney-in-fact to the same extent as if **Southeastern** had been acting in its own behalf.

IN TESTIMONY WHEREOF, witness my signature this 1st day of July, 2016

Southeastern Land, LLC

By: _____

James H. Booth, President

STATE OF KENTUCKY)
) SCT.
COUNTY OF MARTIN)

The foregoing Limited Power of Attorney was subscribed, sworn to and acknowledged before me on this the 1st day of July, 2016, by **James H. Booth**, President of **Southeastern Land, LLC**, a Kentucky limited liability company, for and on behalf of said company

My Commission Expires:

08-18-2017

Notary Public, State at Large, Kentucky

THIS INSTRUMENT PREPARED BY:

Tiffany J. Fannin
Legal Department
2408 Sir Barton Way, Suite 325
Lexington, KY 40509



SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

PLEASE CHECK ALL ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

Please See the appropriate reference document for an explanation of the attachments listed below.

- ☐ ATTACHMENT A : CURRENT BUSINESS CERTIFICATE
- ☐ ATTACHMENT B: PROCESS DESCRIPTION
- ☐ ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS
- ☐ ATTACHMENT D: PROCESS FLOW DIAGRAM
- ☐ ATTACHMENT E: PLOT PLAN
- ☐ ATTACHMENT F: AREA MAP
- ☐ ATTACHMENT G: AFFECTED SOURCE SHEETS
- ☐ ATTACHMENT H: BAGHOUSE AIR POLLUTION CONTROL DEVICE SHEET
- ☐ ATTACHMENT I: EMISSIONS CALCULATIONS
- ☐ ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT
- ☐ ATTACHMENT K: ELECTRONIC SUBMITTAL DISKETTE
- ☐ CERTIFICATION OF INFORMATION
- ☐ APPLICATION FEE

PLEASE MAIL AN ORIGINAL AND TWO COPIES OF THE COMPLETE GENERAL PERMIT REGISTRATION APPLICATION WITH THE SIGNATURE(S) TO THE DAQ PERMITTING SECTION AT THE ADDRESS SHOWN ON THE FRONT PAGE. PLEASE DO NOT FAX PERMIT APPLICATIONS. FOR QUESTIONS REGARDING APPLICATIONS OR WEST VIRGINIA AIR POLLUTION RULES AND REGULATIONS PLEASE CALL (304) 926-3727.

ENGINE DATA SHEET

Source Identification Number ¹		E1 (Crusher)		E2 (Screen)			
Engine Manufacturer and Model		Detroit 3-53		Chieftain 1700 CAT 4.4			
Manufacturer's Rated bhp/rpm		101/2800		111/2200			
Source Status ²		A/F		A/F			
Date Installed/Modified/Removed (Month/Year) ³		2017		2017			
Engine Manufactured/Reconstruction Date ⁴		1977		2015			
Is this a Certified Stationary Spark Ignition Engine according to 40CFR60 Subpart IIII? (Yes or No) ⁵		No		Yes			
Is this a Certified Stationary Spark Ignition Engine according to 40CFR60 Subpart JJJJ? (Yes or No) ⁶		No		No			
Engine, Fuel and Combustion Data	Engine Type	2 Stroke		4 Stroke			
	APCD Type ⁸	N/A		N/A			
	Fuel Type ⁹	Diesel		Diesel			
	H ₂ S (gr/100 scf)	N/A		N/A			
	Operating bhp/rpm	101		111			
	BSFC (Btu/bhp-hr)	N/A		N/A			
	Fuel throughput (ft ³ /hr)	14 GPH*		7.4 GPH			
	Fuel throughput (MMft ³ /yr)	50,400 GPY		26,640 GPY			
	Operation (hrs/yr)	3600		3600			
Reference ¹⁰	Potential Emissions ¹¹	lbs/hr	tons/yr	lbs/hr	tons/yr		
	NO _x	3.1310	5.636	3.4410	6.194		
	CO	0.6747	1.214	0.7415	1.335		
	VOC	0.2495	0.449	0.2742	0.494		
	SO ₂	0.2071	0.373	0.2276	0.410		
	PM ₁₀	0.2222	0.400	0.2442	0.440		
	Formaldehyde	0.00223	0.004011	0.0118	0.00212		
BASED ON USAGE AS REPORTED BY OPERATORS							

1. Enter the appropriate Source Identification Number for each reciprocating internal combustion compressor/generator engine located at the facility. Multiple compressor engines should be designated CE-1, CE-2, CE-3 etc. Emergency Generator engines should be designated EG-1, EG-2, EG-3 etc. If more than three (3) engines exist, please use additional sheets.
2. Enter the Source Status using the following codes:

NS Construction of New Source (installation)	ES Existing Source
MS Modification of Existing Source	RS Removal of Source
3. Enter the date (or anticipated date) of the engine's installation (construction of source), modification or removal.
4. Enter the date that the engine was manufactured, modified or reconstructed.
5. Is the engine a certified stationary compression ignition internal combustion engine according to 40CFR60 Subpart IIII. If so, the engine and control device must be operated and maintained in accordance with the manufacturer's emission-related written instructions. You must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. If the certified engine is not operated and maintained in accordance with the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine and you must demonstrate compliance according to 40CFR§60.4210 as appropriate.

Provide a manufacturer's data sheet for all engines being registered.

6. Is the engine a certified stationary spark ignition internal combustion engine according to 40CFR60 Subpart JJJJ. If so, the engine and control device must be operated and maintained in accordance with the manufacturer's emission-related written instructions. You must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. If the certified engine is not operated and maintained in accordance with the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine and you must demonstrate compliance according to 40CFR§60.4243a(2)(i) through (iii), as appropriate.

Provide a manufacturer's data sheet for all engines being registered.

7. Enter the Engine Type designation(s) using the following codes:

LB2S Lean Burn Two Stroke	RB4S Rich Burn Four Stroke
LB4S Lean Burn Four Stroke	
8. Enter the Air Pollution Control Device (APCD) type designation(s) using the following codes:

A/F Air/Fuel Ratio	IR Ignition Retard
HEIS High Energy Ignition System	SIPC Screw-in Precombustion Chambers
PSC Prestratified Charge	LEC Low Emission Combustion
NSCR Rich Burn & Non-Selective Catalytic Reduction	SCR Lean Burn & Selective Catalytic Reduction
9. Enter the Fuel Type using the following codes:

PQ Pipeline Quality Natural Gas	RG Raw Natural Gas
2FO #2 Fuel Oil	LPG Liquid Propane Gas
10. Enter the Potential Emissions Data Reference designation using the following codes. Attach all referenced data to this *Compressor/Generator Data Sheet(s)*.

MD Manufacturer's Data	AP AP-42	
GR GRI-HAPCalc™	OT Other _____	(please list)
11. Enter each engine's Potential to Emit (PTE) for the listed regulated pollutants in pounds per hour and tons per year. PTE shall be calculated at manufacturer's rated brake horsepower and may reflect reduction efficiencies of listed Air Pollution Control Devices. Emergency generator engines may use 500 hours of operation when calculating PTE. PTE data from this data sheet shall be incorporated in the *Emissions Summary Sheet*.

STORAGE TANK DATA SHEET

Source ID # ¹	Status ²	Content ³	Volume ⁴	Dia ⁵	Throughput ⁶	Orientation ⁷	Liquid Height ⁸
T1	Exist	Diesel	1,000	4	8,000	HORZ	

- Enter the appropriate Source Identification Numbers (Source ID #) for each storage tank located at the facility. Tanks should be designated T01, T02, T03, etc.
- Enter storage tank Status using the following:

EXIST Existing Equipment

REM Equipment Removed

NEW Installation of New Equipment
- Enter storage tank content such as condensate, pipeline liquids, glycol (DEG or TEG), lube oil, etc.
- Enter storage tank volume in gallons.
- Enter storage tank diameter in feet.
- Enter storage tank throughput in gallons per year.
- Enter storage tank orientation using the following:

VERT Vertical Tank

HORZ Horizontal Tank
- Enter storage tank average liquid height in feet.

EMISSION SUMMARY SHEET FOR CRITERIA POLLUTANTS

Registration Number <small>(Agency Use)</small> <u>G10-D</u>										
Source ID No.	Potential Emissions (lbs/hr)					Potential Emissions (tons/yr)				
	NO _x	CO	VOC	SO ₂	PM ₁₀	NO _x	CO	VOC	SO ₂	PM ₁₀
Transfer Points					2.58					4.65
Crush/Screen					4.89					8.80
Stockpiles					0.03					0.15
Haulroads					97.71					176.58
				Total	105.21				Total	190.17
Detroit 3-53	3.1310	0.6747	0.2495	0.2071	0.2222	5.636	1.214	0.449	0.373	0.400
Cat 4.4	3.4410	0.7415	0.2742	0.2276	0.2442	6.194	1.335	0.494	0.410	0.440
	6.572	1.4162	0.5237	0.4347	105.6764	11.83	2.55	0.943	0.783	191.01

EMISSION SUMMARY SHEET FOR HAZARDOUS/TOXIC POLLUTANTS

Registration Number ₆ <u>G10-D</u>													
Potential Emissions (tons/yr)													
Source ID No.	Benzene	Acetaldehyde	Toluene	Xylenes	Acrolein	Naphthalene	Benzene	Acetaldehyde	Toluene	Xylenes	Acrolein	Naphthalene	
Transfer Points													
Crush Screen													
Stockpiles													
Haul roads													
Detroit 3-53	0.00176	0.00145	0.00077	0.00054	0.00017	0.00016	0.003172	0.002607	0.000139	0.000969	0.000314	0.000288	
Cat 4.4	0.00093	0.00077	0.00041	0.00028			0.001676	0.001378	0.000735	0.000512	0.000166	0.000152	
TOTAL	HAPS 0.01094 lb/hr					0.019696 TPY							

SOUTHEASTERN LAND, LLC
COAL CRUSHING/SCREENING PLANT ID No. PENDING
DETROIT DIESEL 3-53

TERIA POLLUTANTS

AP-42 5th Edition Section 3.3 Gasoline and Diesel Industrial Engines (10/96) - Table 3.3-1 for Diesel Fuel

	75	kW
Detroit Diesel Fuel Engine	101	hp
Max. Hours of Operation (8 hrs/day, 5 days/week, 50 weeks/year)	3600	hrs/year
Heating Value for diesel	19300	Btu/gal
	14	GPH (According to operators)

E (hourly) = Emission Factor (lb/hp-hr) * Horse Power (hp)

E (annual) = Emission Factor (lb/hp-hr) * Horse Power (hp) * Maximum Hours of Operation * 1 ton
per 2000 lb

Pollutant		Emission Factor (lb/hp-hr)	Emission Factor (lb/MMBtu)	Rating	lb/hour	TPY
NOx	AP42	0.03100	4.41	D	3.1310	5.636
CO	AP42	0.00668	0.95	D	0.6747	1.214
SOx	AP42	0.00205	0.29	D	0.2071	0.373
PM/PM10	AP42	0.00220	0.31	D	0.2222	0.400
VOC	AP42	0.00247	0.35	D	0.2495	0.449

HAZARDOUS AIR POLLUTANTS

42 5th Edition Section 3.3 Gasoline and Diesel Industrial Engines (10/96) - Table 3.3-2
 45 CSR30 Table 45-30A Hazardous Air Pollutants

Detroit Diesel Fuel Engine	101	hp		
Maximum Hours of Operation (10hrs/day, 6 days/week, 50 weeks/year)	3600	hours/year		
Heating Value for diesel	19300	Btu/lb		
	7.1	lb/gal		
Maximum diesel usage at 2800 rpm	14	gal/hour	(based on known usage)	

E (hourly) = Emission Factor (lb/hp-hr) * Horse Power (hp)

E (annual) = Emission Factor (lb/hp-hr) * Horse Power (hp) * Maximum Hours of Operation * 1 ton
 per 2000 lb

CAS NO.		Emission Factor (lb/MMBtu)	Rating	lb/hour	TPY
71-43-2	Benzene	0.000933	E	0.00176	0.003172
108-88-3	Toluene	0.000409	E	0.00077	0.00139
	Xylenes	0.000285	E	0.00054	0.000969
	1,3-Butadiene	0.0000391	E	7.4E-05	0.000133
50-00-0	Formaldehyde	0.00118	E	0.00223	0.004011
	Acetaldehyde	0.000767	E	0.00145	0.002607
	Acrolein	0.0000925	E	0.00017	0.000314
91-20-3	Naphthalene	0.0000848	E	0.00016	0.000288
Burning diesel fuel:			Total HAPs	0.00716	0.012885
				lb/hour	TPY

**SOUTHEASTERN LAND, LLC
COAL SCREENING PLANT**

**ID No. PENDING
POWER SCREEN CHIEFTAIN 1700**

TERIA POLLUTANTS

AP-42 5th Edition Section 3.3 Gasoline and Diesel Industrial Engines (10/96) - Table 3.3-1 for Diesel Fuel

	83	kW
Caterpillar C4.4 Diesel Fuel Engine	111	hp
Max. Hours of Operation (8 hrs/day, 5 days/week, 50 weeks/year)	3600	hrs/year
Heating Value for diesel	19300	Btu/gal
	7.4	GPH

E (hourly) = Emission Factor (lb/hp-hr) * Horse Power (hp)

E (annual) = Emission Factor (lb/hp-hr) * Horse Power (hp) * Maximum Hours of Operation * 1 ton
per 2000 lb

Pollutant		Emission Factor (lb/hp-hr)	Emission Factor (lb/MMBtu)	Rating	lb/hour	TPY
NOx	AP42	0.03100	4.41	D	3.4410	6.194
CO	AP42	0.00668	0.95	D	0.7415	1.335
SOx	AP42	0.00205	0.29	D	0.2276	0.410
PM/PM10	AP42	0.00220	0.31	D	0.2442	0.440
VOC	AP42	0.00247	0.35	D	0.2742	0.494

HAZARDOUS AIR POLLUTANTS

42 5th Edition Section 3.3 Gasoline and Diesel Industrial Engines (10/96) - Table 3.3-2
40 CSR30 Table 45-30A Hazardous Air Pollutants

Caterpillar C4.4 Diesel Fuel Engine	111	hp		
Maximum Hours of Operation (10hrs/day, 6 days/week, 50 weeks/year)	3600	hours/year		
Maximum diesel usage at 2200 rpm	19300	Btu/lb		
	7.1	lb/gal		
Heating Value for diesel	134900	BTU/US gal		
Maximum diesel usage at 2200 rpm	7.4	gal/hour	based on kw	

E (hourly) = Emission Factor (lb/hp-hr) * Horse Power (hp)

E (annual) = Emission Factor (lb/hp-hr) * Horse Power (hp) * Maximum Hours of Operation * 1 ton
per 2000 lb

		Emission Factor (lb/MMBtu)	Rating	lb/hour	TPY
CAS NO.					
71-43-2	Benzene	0.000933	E	0.00093	0.001676
108-88-3	Toluene	0.000409	E	0.00041	0.000735
	Xylenes	0.000285	E	0.00028	0.000512
	1,3-Butadiene	0.0000391	E	3.9E-05	7.03E-05
50-00-0	Formaldehyde	0.00118	E	0.00118	0.00212
	Acetaldehyde	0.000767	E	0.00077	0.001378
	Acrolein	0.0000925	E	9.2E-05	0.000166
91-20-3	Naphthalene	0.0000848	E	8.5E-05	0.000152
Burning diesel fuel:			Total HAPs	0.00378	0.006811
				lb/hour	TPY

Donna Toler

From: Jason Swann [jason.swann@boothenergy.com]

Date: Thursday, February 23, 2017 8:14 AM

To: Donna Toler

Subject: RE: Rock Crusher and Coal Screening Plants

Here is the specs on the COAL crusher engine. It is the 3-53 series Detroit Engine I have highlighted... Please disregard what Rick had written before and lets go with this information here... I also answered it in email form (written in red) down below this screenshot but had one question about what you were asking me on the year manufactured, was that the engine or the crusher you wanted the year on?? Be sure to scroll down and see the body of the email.... Thanks!



Detroit Diesel
injectors, water
pumps, heads, fue
pumps, blowers

Detroit Diesel 3-53 key specs

Arrangement

3-53 - 3 Cyl In-Line, natural aspiration

3-53T - 3 Cyl In-Line, turbocharged

Displacement

3-53N and 3-53T - 2.6 liter, 159 CID

Bore - 3.875 in, 98.425 mm

Stroke - 4.50 in, 114.30 mm

Compression ratio:

3-53 21:1

3-53T 18.7:1

Power

3-53

101 hp, 75 kW @ 2800 rpm

3-53T

131 hp, 98 kW @ 2500 rpm

Torque

3-53

205 lb.ft, 278 Nm @ 1560 rpm

3-53T

312 lb.ft, 423 Nm @ 1600 rpm

Dimensions approx:

3-53N

length 838 mm, 33 in

width 686 mm, 27 in

height 589 mm, 35 in

3-53T

length 838 mm, 33 in

width 737 mm, 29 in

height 1016 mm, 40 in

Weight approx:

3-53N 438 kg, 964 lb

3-53T 454 kg, 999 lb

Detroit Diesel 3-53 essential bolt tightening torques

Main Bearing Bolts (9/16 NC)

step 1 = 60 lb.ft, 80 Nm

step 2 = 130 lb.ft, 177 Nm

Connecting Rod Bolts

earlier type had 5/16 in bolts

24 to 28, lb.ft, 33 to 38 Nm

later type has 3/8 in bolts

40 to 45, lb.ft, 54 to 61 Nm

Cylinder head Bolts (5/8 NC)

step 1 = 60 lb.ft, 80 Nm

step 2 = 110 lb.ft, 150 Nm

step 3 = 180 lb.ft, 240 Nm

Diesel 3
3.5 plate
from
machine

MFG JIM PYLE CO
JCT CITY KY 40440
MODEL STANDARD
SIZE 20-40
SW 3384
PHONE 354-3432
FAC 371-12-77

POWERSCREEN®

A TEREX
BRAND

Manufactured By
Terex GB Ltd

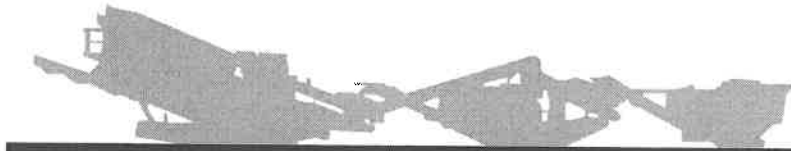
Malisland Road, Dungannon, Co. Tyrone
Northern Ireland BT71 4DR

MACHINE MODEL	CHIEFTAIN 1700
YEAR MANUFACTURED	2015
MACHINE WEIGHT	26,900 KGS
SERIAL NUMBER	~PID00129TDGF81029~

Powerscreen® Chieftain 1700

2 Deck Incline Screen

Specification - Rev 3. 06/06/2011



Powerscreen® Chieftain 1700

Specification - Rev 3. 06/06/2011

Specification

		14ft Hopper (with grid) wheel	14ft Hopper (with grid) track
Total weight		24,700kg (54,454lbs)	26,900kg (59,304lbs)
Transport	Length	16.81m (55' 2")	16.53m (54' 3")
	Width	3.0m (9' 10")	3.0m (9' 10")
	Height	3.6m (11' 10")	3.4m (11' 3")
Working	Length	17.22m (56' 6")	17.22m (56' 6")
	Width	17.32m (56' 10")	17.32m (56' 10")
	Height	6.21m (20' 4")	5.82m (19' 1")
Screenunit		4.8m x 1.5m (16' x 5')	4.8m x 1.5m (16' x 5')
Powerunit		Diesel / Hydraulic	Diesel / Hydraulic
Plant Colour		RAL 5021	RAL 5021

Features & Benefits

- High capacity up to 500 tph (depending on feed size, mesh size & material type)
- Maximum feed size 150mm
- Engine protection shutdown system
- Powerunit featuring a transverse engine arrangement to aid access & serviceability
- Heavy duty single shaft incline screenbox with adjustable stroke, angle & speed
- Hydraulic screen tensioning
- Screen mesh access system for quicker mesh changes
- Maximum mobility with heavy duty, low ground pressure crawler tracks
- Removable heavy duty pendant remote control system
- Quick set up time
- High performance hydraulic system - cast iron pumps & motors complete with hydraulic cooler
- Low profile double deck vibrating grid option with radio remote control tipping grid rams, angle adjustable & fully riveted construction
- Hydraulically folding conveyors for transport
- Fines conveyor drop down facility to aid bottom deck mesh access

Applications

Aggregate

- Sand & gravel
- Blasted rock
- River rock

Recycling

- Top soil
- C&D waste
- Composted materials
- Wood by-products
- Overburden
- Foundry waste

Mining

- Processed ores
- Processed minerals

Abbreviations: T=Track, W=Wheel, Std= Standard, Hyd= Hydraulic, W/O= Without, C/W= Complete with
 EXT= Extended, DDVG= Double deck vibrating grid, Inc= Including, Aux= Auxiliary,
 Conv= Conveyor

All specifications subject to change without prior notice



Powerscreen® Chieftain 1700

Specification - Rev 3. 06/06/2011

Hopper & Grid

Target area: 4.85m (15' 10") long x 1.85m (6') wide
Grid aperture: 102mm (4")

Hopper capacity: 7.5m³ (9.8 cu. yd.)

Adjustable angle tipping grid with integral loading and wing plates

Feed in height: 3.65m (11' 11") (side)

Feed in height: 3.33m (10' 11") (rear)

Feed Conveyor

1050mm (42") wide feed conveyor with direct drive system & hydraulic variable speed control

4.09m (13' 5") drum centres

320mm (13") drum diameter (drive)

350mm (14") drum diameter (tail)

Main Conveyor

1050mm (42") 3 ply plain belt

10.17m (33' 4") drum centres

286mm (11") drum diameter (drive)

270mm (8") drum diameter (tail)

Hydraulically adjustable conveyor, fully skirted & sealed

Variable speed control

Angle adjustment: 23° - 27°

Screenbox

4.8m x 1.5m (16' x 5') 2 deck incline screen

Highly aggressive screen drive

Grease filled 2 bearing screenbox

4.8m x 1.5m (16' x 5') top deck

4.3m x 1.5m (14' x 5') bottom deck

4 of media sections (side tension) top deck

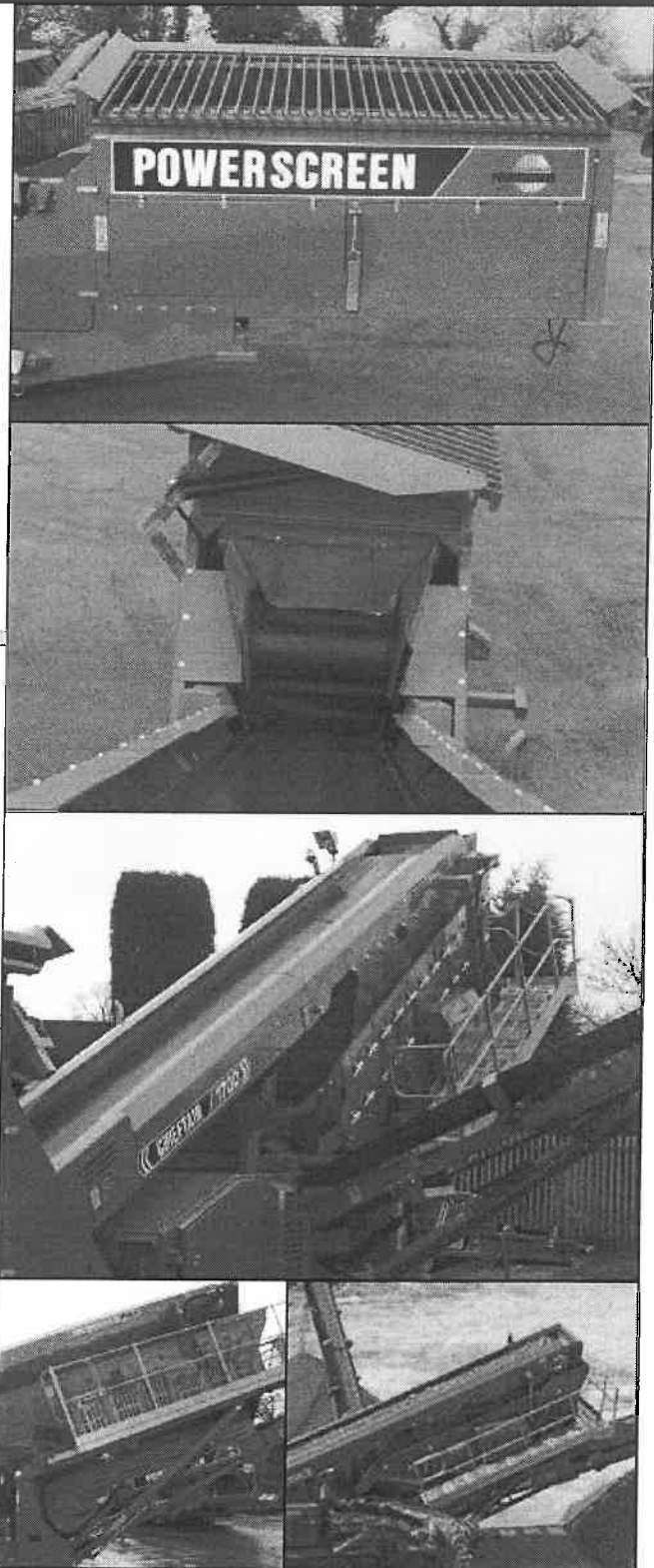
2 of media sections (end tension) bottom deck

Hydraulic screen angle adjustment 20° - 32°

Hydraulic screen tensioning on bottom deck

Galvanised walkways on both sides of screen

Quick release wedge screen tensioning system for side tensioned section



All specifications subject to change without prior notice

Powerscreen® Chieftain 1700

Specification - Rev 3. 06/06/2011

Finesize - Tail Conveyor

1200mm (48") wide 3 ply plain belt

6.87m (22' 6") drum centres

286mm (11") drum diameter (drive)

270mm (10") drum diameter (tail)

4.23m (13' 10") stockpile height (to drum centre) T

113m³ (148 cu. yd.) stockpile volume

4.59m (15' 1") stockpile height (to drum centre) W

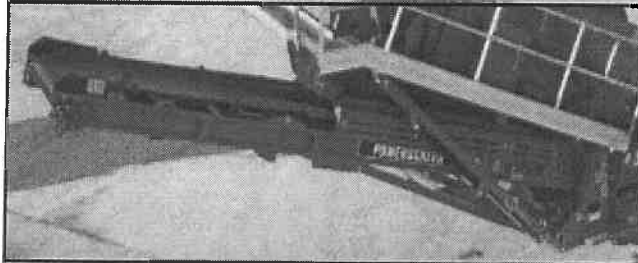
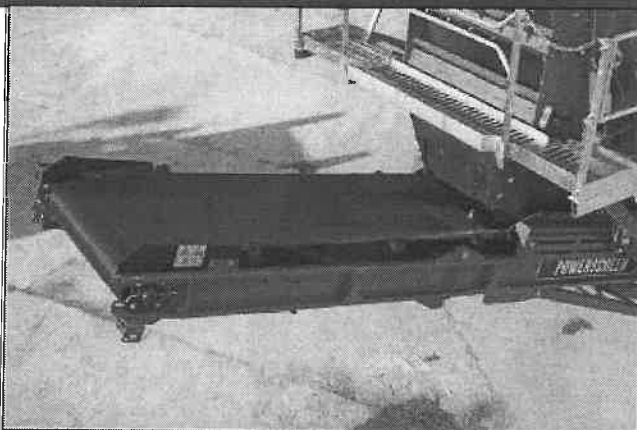
144m³ (188 cu. yd.) stockpile volume

Variable speed

Hydraulically folding

Chevron belt as option

Angle adjustment: 0° - 25°



Midsize & Oversize - Side Conveyors

650mm (26") wide 3 ply chevron belt

9.67m (31' 8") drum centres

286mm (11") drum diameter (drive)

270mm (10") drum diameter (tail)

4.72m (15' 6") stockpile height (to drum centre) T

157m³ (205 cu. yd.) stockpile volume

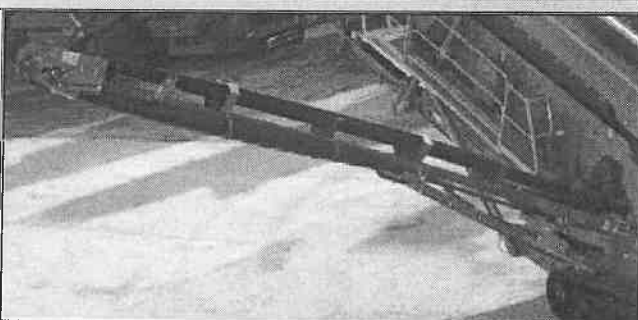
5.08m (16' 8") stockpile height (to drum centre) W

195m³ (255 cu. yd.) stockpile volume

Variable speed control

Hydraulically folding

Fixed angle: 25°



All specifications subject to change without prior notice

Powerscreen® Chieftain 1700

Specification - Rev 3. 06/06/2011

Powerunit & Hydraulics

Engine:

CAT 4.4 (TIER 3) 4 cylinder diesel

Performance:

83 kW (111.3hp) @ 2200rpm

Tank Capacities:

Fuel: 336 L (88 US Gal)

Hydraulic Oil: 576 L (152 US Gal)

Pumps:

Flywheel pump: Cast iron tandem pump 33cc/rev

PTO pump A: Cast iron tandem pump 23cc/rev

PTO pump B: Cast iron tandem pump 14cc/rev

Motors:

Belt feeder: 160cc/rev

Main conveyor: Cast iron 630cc/rev

Tail conveyor: Cast iron 500cc/rev

Side conveyors: Cast iron 400cc/rev

Screen motor: Cast iron 59cc/rev

Optional Diesel engine:

Deutz TCD2013 L04 2V

125 kW (168hp) @ 2200rpm



Crawler Track Data

Track width: 400mm

Output torque: 33,804 Nm

Gradability degrees: 24.8°

Gearbox ratio: 1:123

Hydraulic motor: 85cc/rev

Approximate speed: 0.7kph (0.43mph)

Total flow per track: 72.6 Lpm



All specifications subject to change without prior notice

Powerscreen® Chieftain 1700 Options

Specification - Rev 3. 06/06/2011

Vibrating Grid

Target area: 3.05m (10') long x 2.14m (7') wide

Double deck option:

Bottom deck screen size:

2 of 1.9m (6' 3") x 1.5m (4' 11")

Working angle: 10° - 20° (hydraulic adjustable)

Tip angle: 45° max

Motor: 59cc/rev

Circuit: Coupled to main conveyor circuit

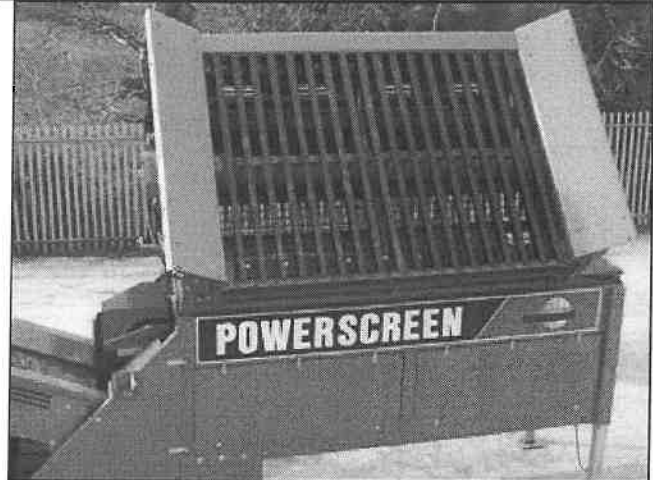
Feed in height: 3.73m (12' 2") (side)

Feed in height: 3.93m (12' 10") (rear)

Transport height: 3.98m (13') Track

Transport height: 3.98m (13') Wheel

Total weight: 4,000kg (8,818lbs)



Dual Power

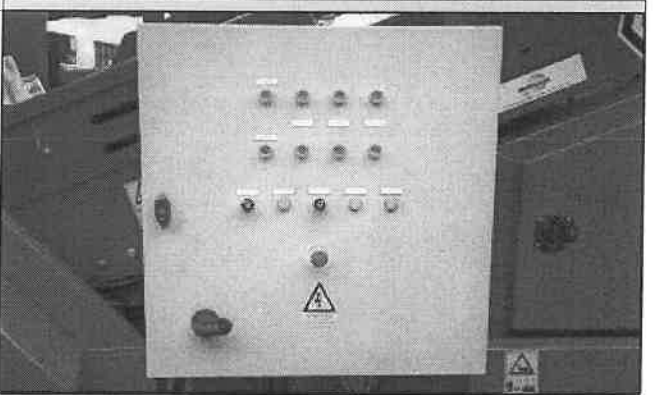
Dual power system:

2 of electric motors; 37 kW (50hp) & 30 kW (40hp)

Diesel engine

Integrated control system

This controls either diesel-hydraulic or electric-hydraulic functions



Other Options

Different coloured machine

Optional engine

Auto lubrication system

Quick release wedge tensioning for middle deck

Electric wheel version

Anti roll-back

Radio controlled tracking

Roll-in bogie

Hydraulic jacking legs

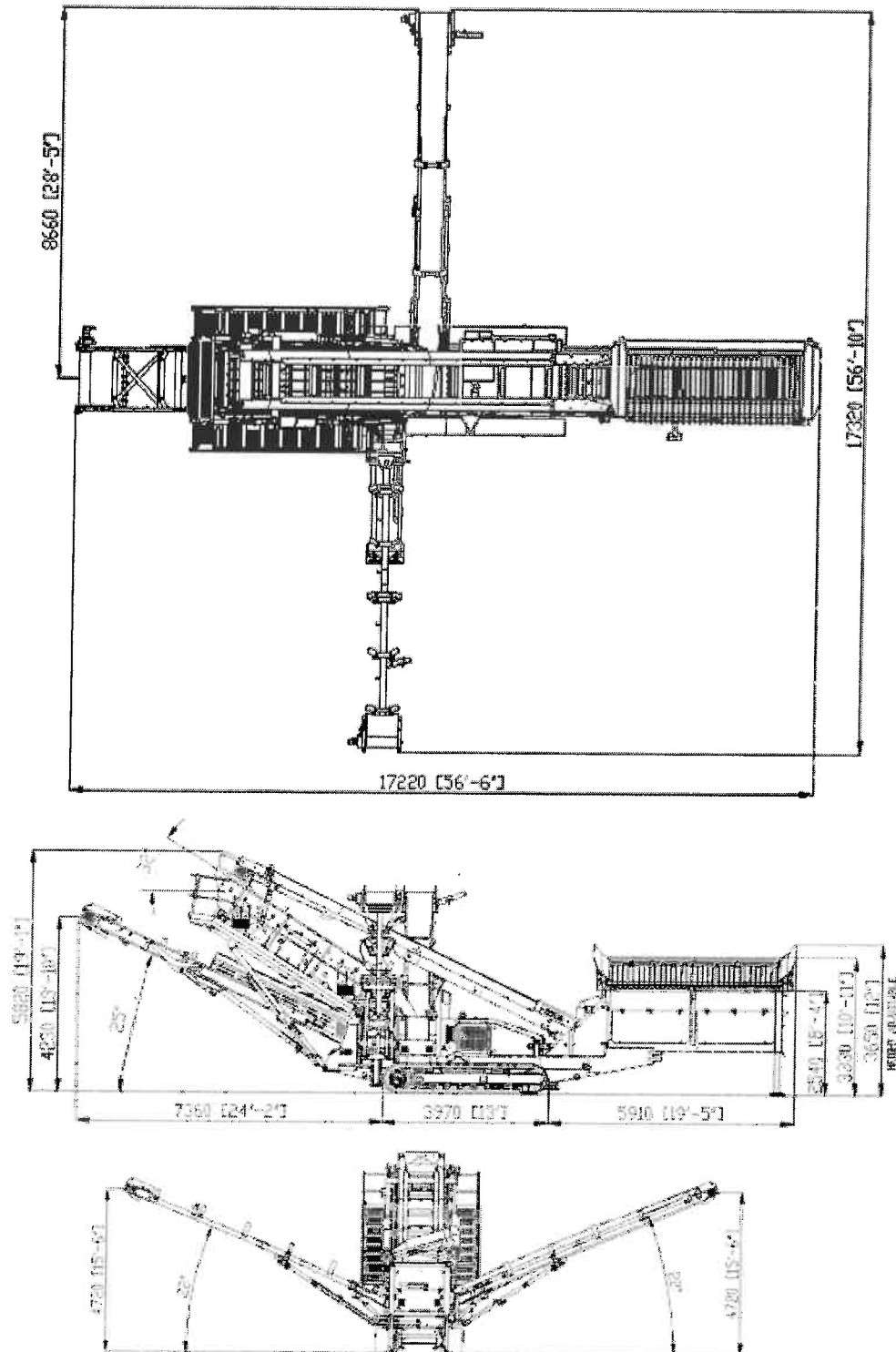
Auxiliary conveyor attached for transport

Washing version

All specifications subject to change without prior notice

Powerscreen® Chieftain 1700

Specification - Rev 3, 06/06/2011



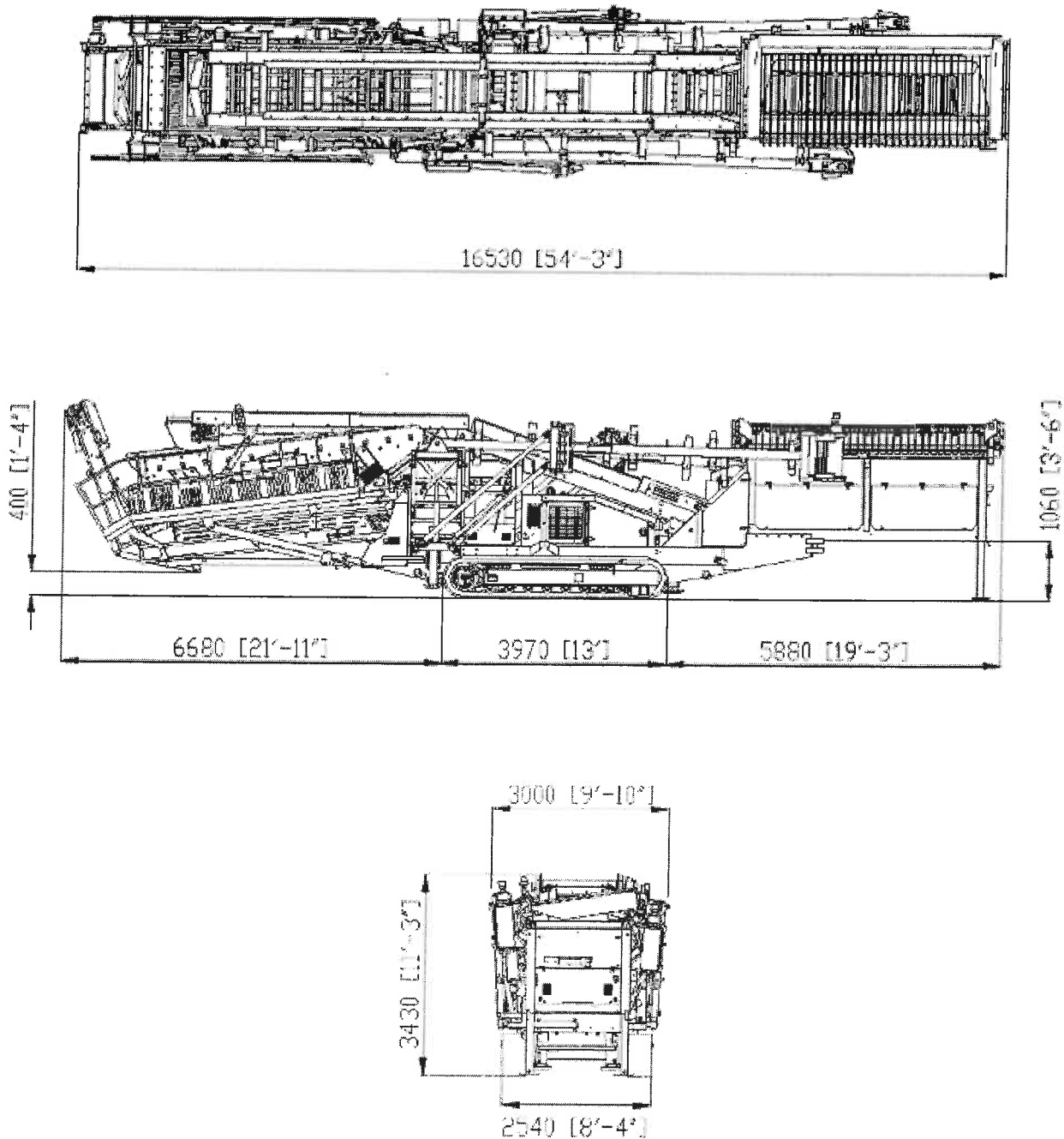
**Figure 1: Chieftain 1700 2 Deck Track
Working Position**

All specifications subject to change without prior notice



Powerscreen® Chieftain 1700

Specification - Rev 3, 06/06/2011

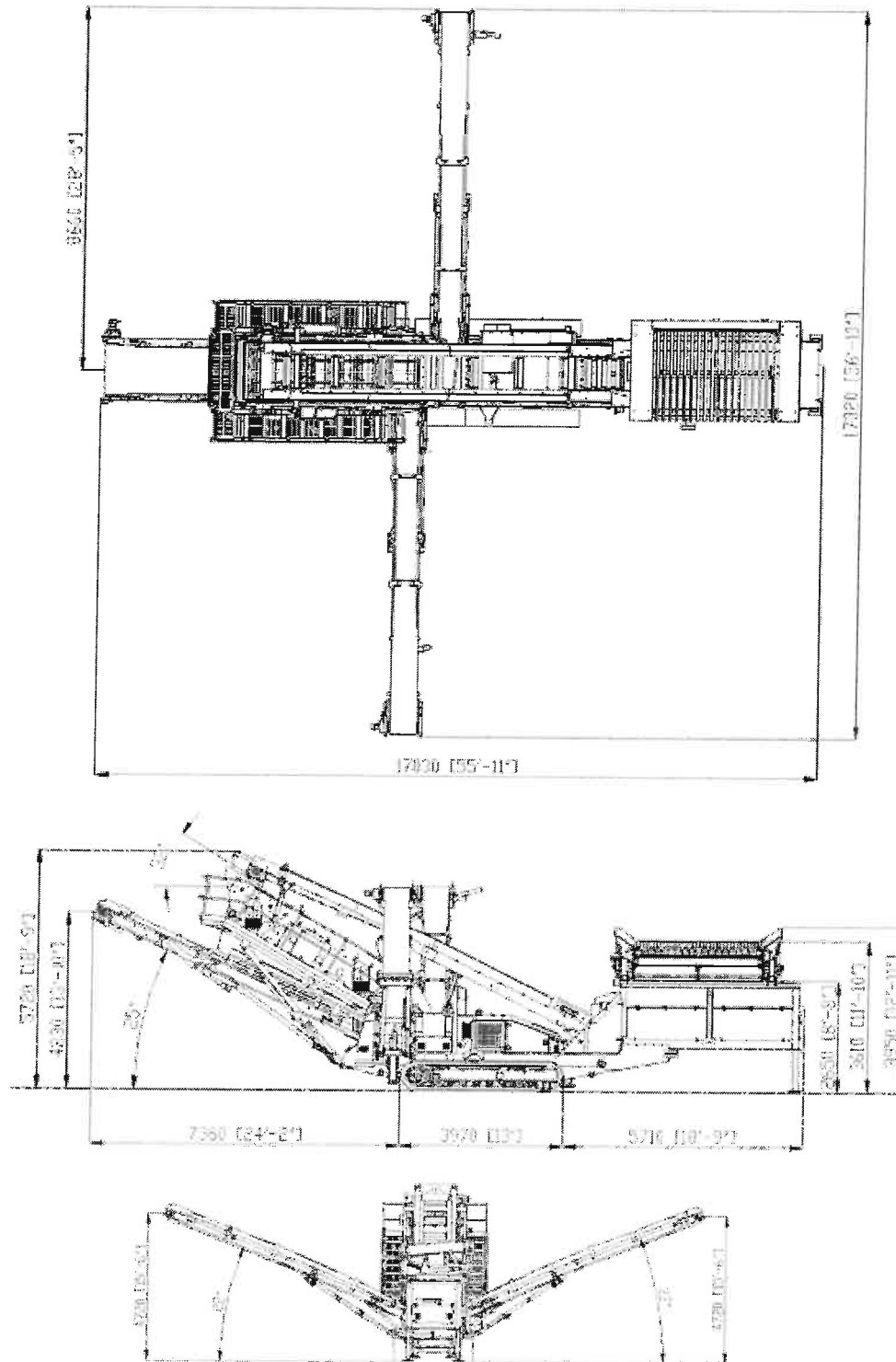


**Figure 2: Chieftain 1700 2 Deck Track
Transport Position**

All specifications subject to change without prior notice

Powerscreen® Chieftain 1700

Specification - Rev 3. 06/06/2011

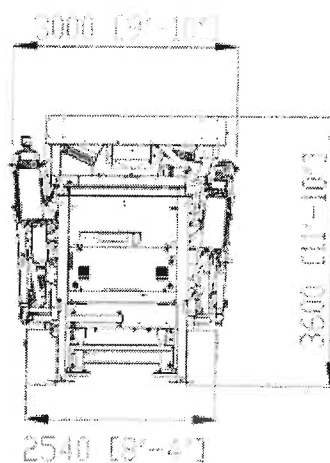
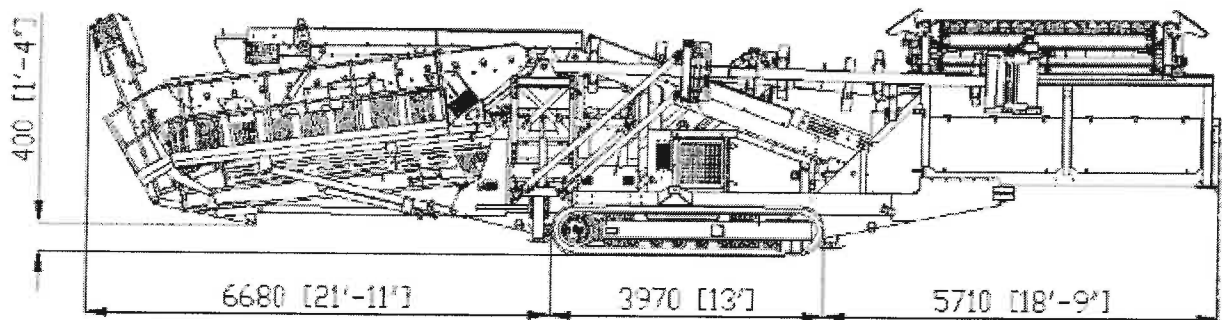
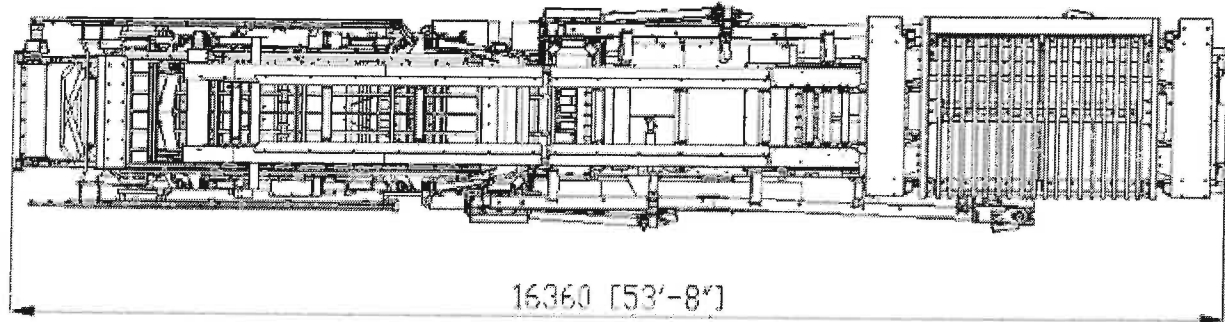


All specifications subject to change without prior notice



Powerscreen® Chieftain 1700

Specification - Rev 3. 06/06/2011



**Figure 4: Chieftain 1700 2 Deck Track
Double Deck Vibrating Grid
Transport Position**

All specifications subject to change without prior notice



Powerscreen® Chieftain 1700

Specification - Rev 3. 06/06/2011

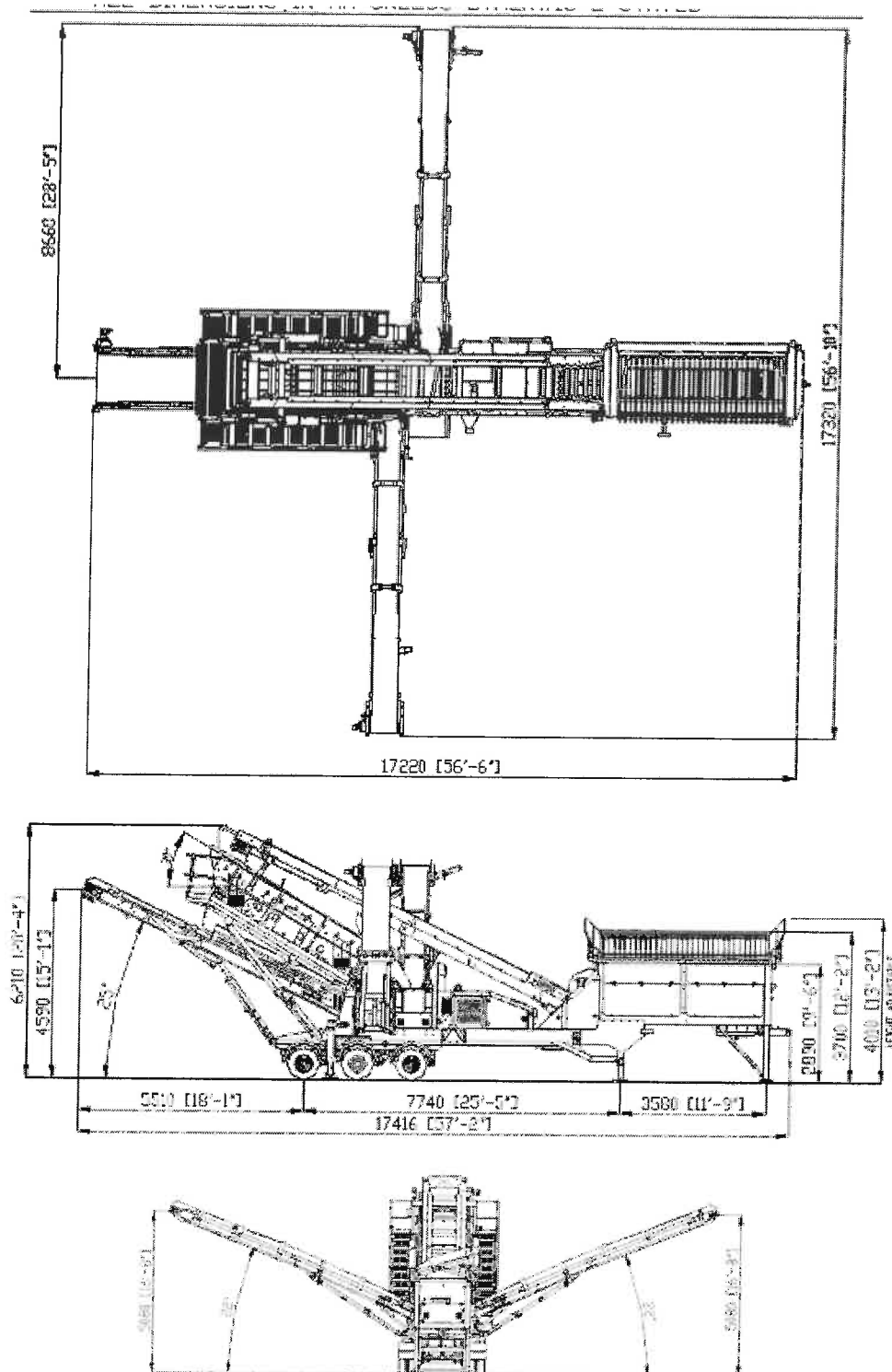


Figure 5: Chieftain 1700 2 Deck Wheel
Working Position

All specifications subject to change without prior notice



Powerscreen® Chieftain 1700

Specification - Rev 3. 06/06/2011

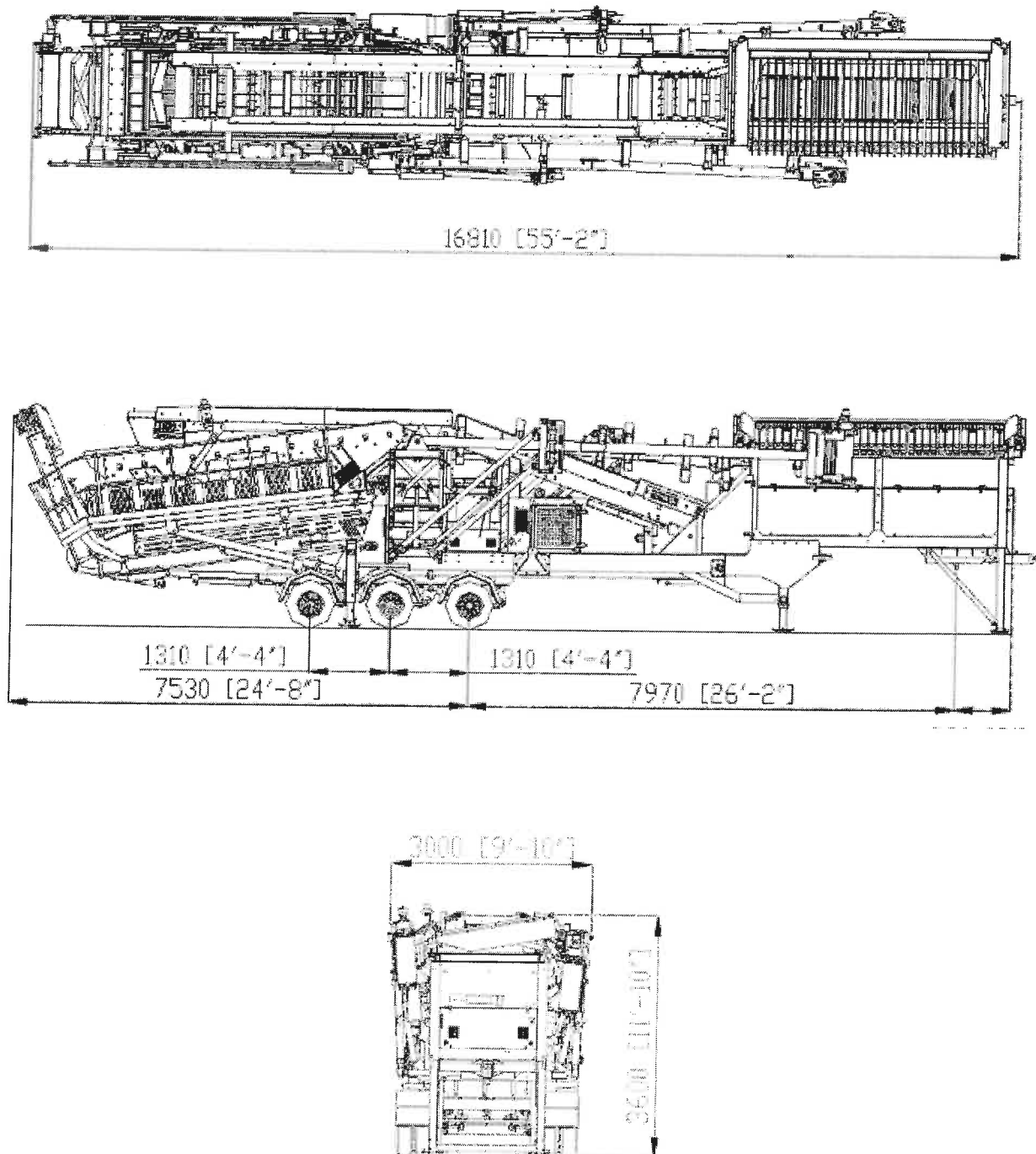
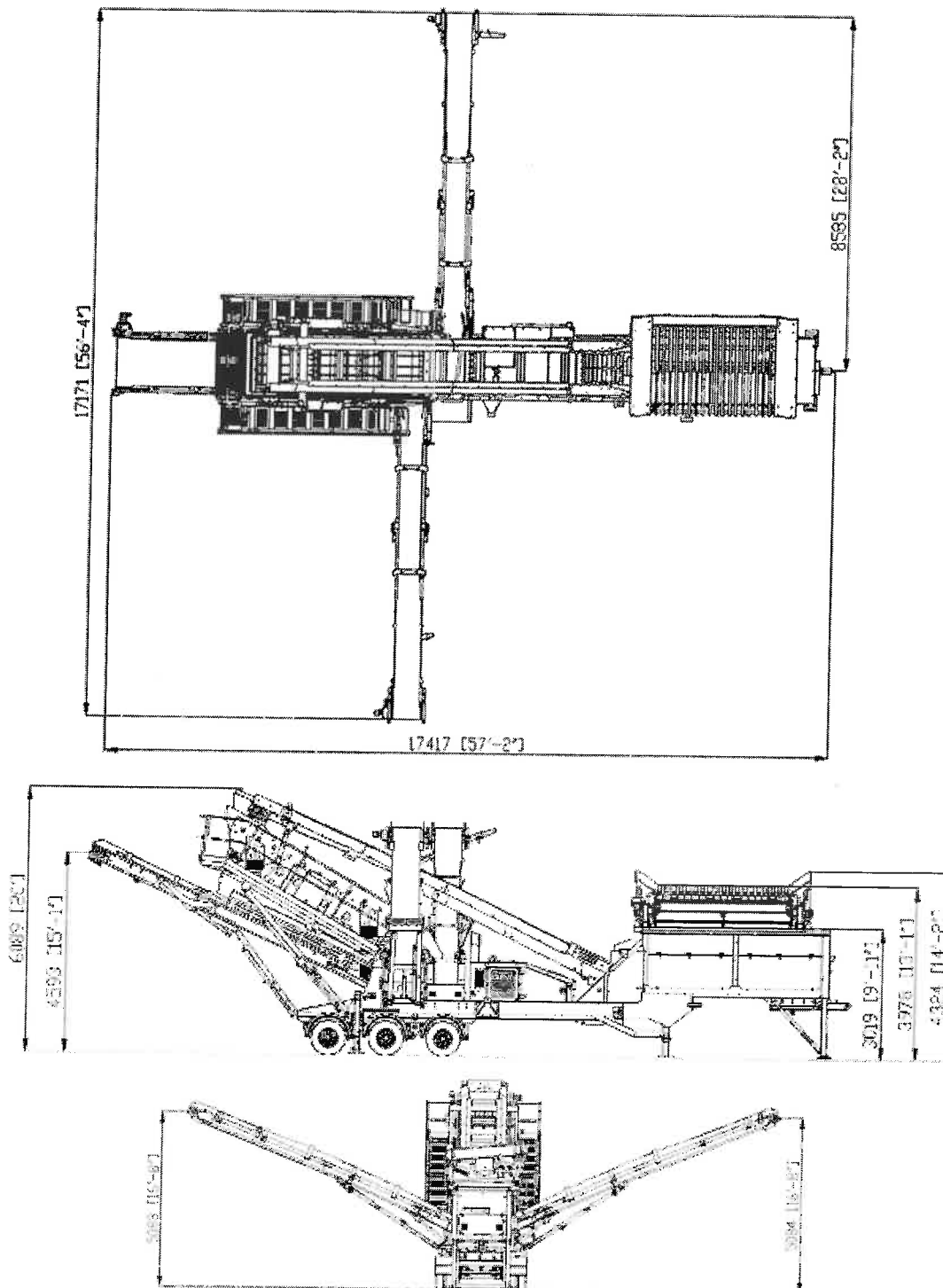


Figure 6: Chieftain 1700 2 Deck Wheel Transport Position

All specifications subject to change without prior notice

Powerscreen® Chieftain 1700

Specification - Rev 3. 06/06/2011



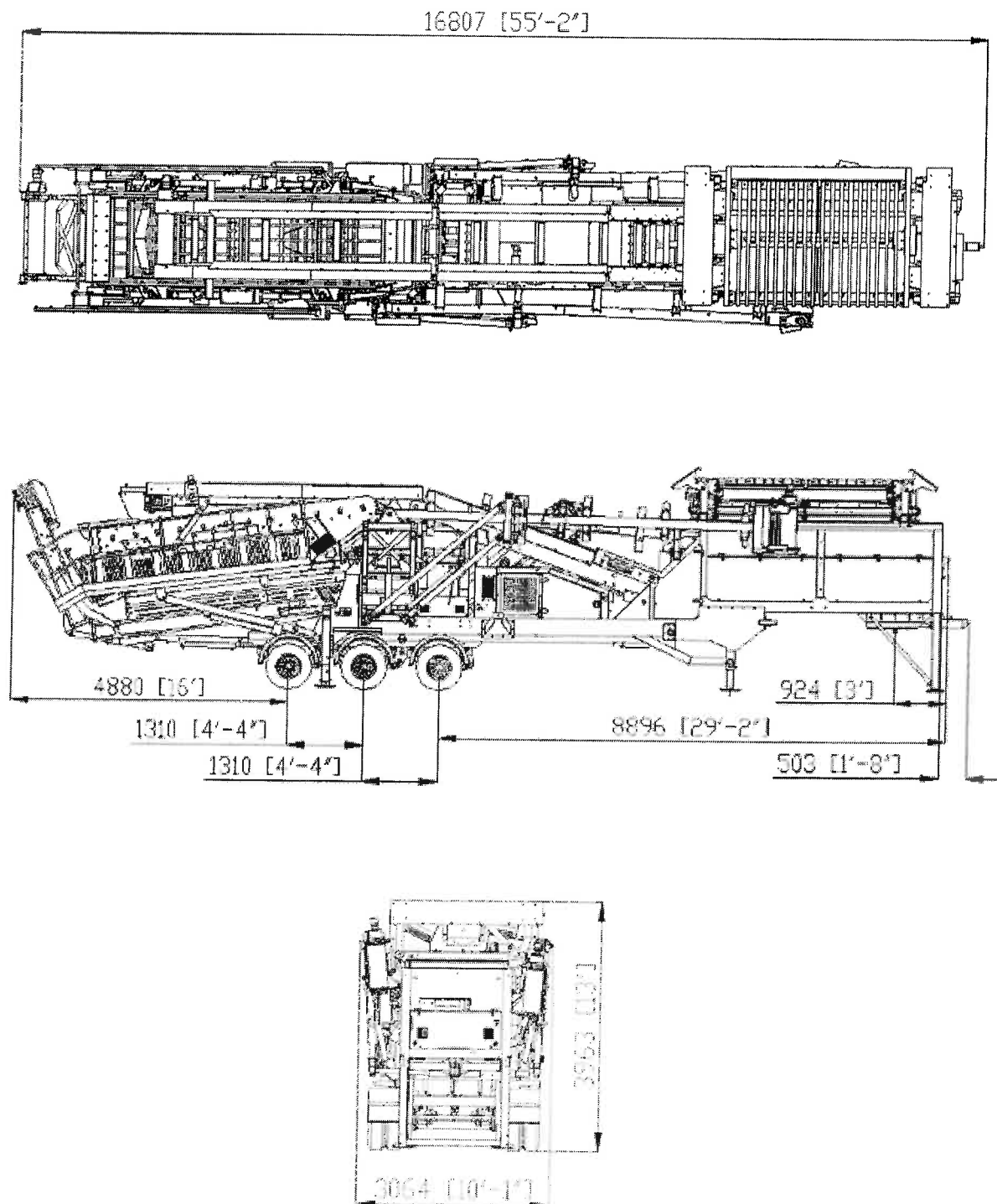
**Figure 7: Chieftain 1700 2 Deck Wheel
Double Deck Vibrating Grid
Working Position**

All specifications subject to change without prior notice



Powerscreen® Chieftain 1700

Specification - Rev 3. 06/06/2011



**Figure 8: Chieftain 1700 2 Deck Wheel
Double Deck Vibrating Grid
Transport Position**

All specifications subject to change without prior notice



Powerscreen® Chieftain 1700

Specification - Rev 3. 06/06/2011

Powerscreen equipment complies with CE requirements.

Please consult Powerscreen if you have any other specific requirements in respect of guarding, noise or vibration levels, dust emissions, or any other factors relevant to health and safety measures or environmental protection needs. On receipt of specific requests, we will endeavour to ascertain the need for additional equipment and, if appropriate, quote extra to contract prices.

All reasonable steps have been taken to ensure the accuracy of this publication, however due to a policy of continual product development we reserve the right to change specifications without notice.

It is the importers' responsibility to check that all equipment supplied complies with local legislation regulatory requirements.

Plant performance figures given in this brochure are for illustration purposes only and will vary depending upon various factors, including feed material gradings and characteristics. Information relating to capacity or performance contained within this publication is not intended to be, nor will be, legally binding.

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Web: www.powerscreen.com

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